

	<h1>Offer and Acceptance</h1>		State of Arizona State Procurement Office 100 N. 15 th Ave. Suite 201 Phoenix, AZ 85007
	SOLICITATION NO.: ADSP016-00005912 Request for Qualifications: 2016 Annual Professional Services List	PAGE 1	
Offeror: <u>Structural Grace, Inc.</u>	OF 1		

OFFER

TO THE STATE OF ARIZONA:

The Undersigned hereby offers and agrees to furnish the material, service or construction in compliance with all terms, conditions, specifications and amendments in the Solicitation and any written exceptions in the offer. Signature also certifies Small Business status.

Structural Grace, Inc.

 Company Name

808 North 1st Street

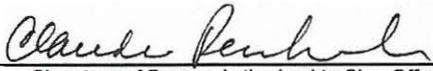
 Address

Phoenix AZ 85004

 City State Zip

cperchinelli@strucutralgrace.com

 Contact Email Address



 Signature of Person Authorized to Sign Offer

Claudia Perchinelli, PE, SE

 Printed Name

President/CEO

 Title

Phone: 520.320.0156

Fax: 520.320.0157

By signature in the Offer section above, the Offeror certifies:

1. The submission of the Offer did not involve collusion or other anticompetitive practices.
2. The Offeror shall not discriminate against any employee or applicant for employment in violation of Federal Executive Order 11246, State Executive Order 2009-9 or A.R.S. §§ 41-1461 through 1465.
3. The Offeror has not given, offered to give, nor intends to give at any time hereafter any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a public servant in connection with the submitted offer. Failure to provide a valid signature affirming the stipulations required by this clause shall result in rejection of the offer. Signing the offer with a false statement shall void the offer, any resulting contract and may be subject to legal remedies provided by law.
4. The Offeror certifies that the above referenced organization IS/ IS NOT a small business with less than 100 employees or has gross revenues of \$4 million or less.

ACCEPTANCE OF OFFER

The Offer is hereby accepted.

The Contractor is now bound to sell the materials or services listed by the attached contract and based upon the solicitation, including all terms, conditions, specifications, amendments, etc., and the Contractor's Offer as accepted by the State.

This Contract shall henceforth be referred to as Contract No. ADSP016-00005912

The effective date of the Contract is March 1, 2016

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

State of Arizona
 Awarded this 29 day of February 2016


 Procurement Officer



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

STATE PROCUREMENT OFFICE
Department of Administration
100 North 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:	Structural Grace, Inc.
b. FIRM (OR BRANCH OFFICE) STREET:	808 North 1 st Street
c. FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85004
f. YEAR ESTABLISHED:	1999
(g1). OWNERSHIP - TYPE:	S-Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	Disadvantaged Business Enterprise (DBE) and Small Business Concern (SBC)
h. POINT OF CONTACT NAME AND TITLE:	Nathan Palmer, PE – Phoenix Engineering Manager
i. POINT OF CONTACT TELEPHONE NUMBER:	602.437.2551
j. POINT OF CONTACT E-MAIL ADDRESS:	npalmer@structuralgrace.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	7	4
Construction Inspector	S	7	6
Total		14	10



ATTACHMENT I – General Qualifications

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

a. NAME Claudia Perchinelli, PE, SE	b. ROLE IN THIS CONTRACT Sr. Structural Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 30	2. WITH CURRENT FIRM 16
d. LOCATION (<i>City and State</i>) 1430 E. Fort Lowell Road, Suite 200 Tucson, AZ 85719 and 808 North First Street, Phoenix, AZ 85004			
e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) MS Civil Engineering BS Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS AZ Civil PE #29434 AZ Structural SE #36837	
g. OTHER PROFESSIONAL QUALIFICATIONS (<i>Organizations, Awards, etc.</i>) American Segmental Bridge Institute (ASBI) - Member since 1999 Arizona Board of Technical Registration Board Member - 2009-2011 ASBI Conference 2000, Design & Construction of the Lower Screwtail Bridge			
2014 ACEC Grand Award – Kino Parkway and 22 nd Street 2014 ACEC Grand Award – Cushing Street Bridge			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) Kino Boulevard & 22nd Street Overpass, Tucson, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager providing structural and architectural design and production of construction documents, including cost estimate and special provisions, for the Kino Pkwy over 22nd Street Bridge as part of the Kino Pkwy/22nd Street Traffic Interchange Project. Responsible for coordinating the design processes for the multi-discipline team with specific responsibility for the bridge architecture component of the project. As part of this project, prepared the Structure Type Selection Report for the 22nd Street Bridge replacement over the UPRR yard.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (<i>City and State</i>) Luis G. Gutierrez / Cushing Street Bridge, Tucson, AZ	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager responsible for designing, preparing construction documents and performing post design services for the Luis Gutierrez / Cushing Street Bridge. The 320-ft long, 2-span bridge will include two traffic lanes, two modern streetcar tracks, two bicycle lanes and pedestrian ways. Extensive multi-stakeholder consensus building, public involvement and coordination with the City of Tucson Design Team / Community Steering Committee was conducted during the conceptual design phase of this unique structure.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (<i>City and State</i>) Scottsdale Road Widening: Thompson Peak Parkway to Pinnacle Peak, Scottsdale, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Principal for structures associated with the widening of Scottsdale Road from a four-lane roadway to a six-lane roadway with landscaped median. This project required several wash crossings, including a 160-foot long concrete bridge with a 35° skew over Rawhide Wash. Extensive coordination was required with artists, hydraulic and roadway engineers.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (<i>City and State</i>) Royal Palm Pedestrian Bridge, Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Principal for the design the Royal Palms Bicycle and Pedestrian Bridge. The project included the design of a 12 foot wide bicycle and pedestrian bridge across the Arizona Canal north of Dunlap Avenue between 15th Avenue and 19th Avenue. The bridge is a single span pre-fabricated truss on drilled shaft foundations. The project also re-graded the canal path to make the travel paths acceptable for ADA criteria.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (<i>City and State</i>) Northwest Light Rail Extension – Dunlap Station Artwork - Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Principal for the structural design and detailing of the Northwest Extension, Dunlap Station Artwork structures. The structures were designed to hang from a 60' x 60' x 20' high and placed in 20'X20' bays, with intermediate framing at 10' spacing. The steel framing supports the shade material and approximately 10 art pieces. SGI designed the steel support pieces for the artwork and the connections to the main frame; details of the artwork were drafted by Colab Studio.	<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 Nathan Palmer, PE	b. ROLE IN THIS CONTRACT Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 14	2. WITH CURRENT FIRM 2
d. LOCATION (<i>City and State</i>) 808 North First Street, Phoenix, AZ 85004 and 1430 E. Fort Lowell Road, Suite 200 Tucson, AZ 85719			
e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) MS Civil Engineering BS Civil Engineering		f. PROFESSIONAL TRAINING – REGISTRATIONS AZ Civil PE #48625	
g. OTHER PROFESSIONAL QUALIFICATIONS (<i>Organizations, Awards, etc.</i>) FHWA-NHI Course 130055; Safety Inspection of In-Service Bridges FHWA-NHI Course 130053; Bridge Inspection Refresher Training FHWA-NHI Course 130092; Fundamentals of LRFR and Applications of LRFR for Bridge Superstructures ACEC LEAP Graduate			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) ADOT Bridge Design & Bridge Management Sections, Maricopa County, AZ	(2) YEAR COMPLETED	
		Professional Services Various for 2014	Construction (if applicable) Various for 2014
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager for an on-call contract providing multi-discipline professional design and evaluation services to the ADOT Bridge Design and Bridge Management Sections.	<input type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (<i>City and State</i>) Bridge Repair Recommendation Report and the Bridge Repair Final Design for Four Bridges, Glendale, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager for the evaluation of the City's bridge inventory, documented repair recommendations and prioritized repairs through a formal Priority Criteria Memorandum Process. In addition, bridge rehabilitation and repair designs for the following bridges: ACDC Bridge at Cactus Road, Grand Canal Bridge at 83rd Avenue, Agua Fria River Bridge at Glendale Avenue and ACDC Bridge at 59th Avenue.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (<i>City and State</i>) Aravaipa Bridge Load Rating, Pinal County, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) NA
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager to perform load rating for the superstructure according to the LRFR methodology. A field review was also conducted to confirm existing site conditions and obtain any missing, or additional pertinent information necessary to load rate the bridge. This 260ft simple span bridge had over 4000 members that were analyzed in a 3-D model with 8 different moving live load vehicles.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (<i>City and State</i>) Thomas Road over Indian Bend Wash, Scottsdale, AZ	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager for structural design services to modify an existing bridge. The design included raising the bridge sidewalks, replacing the 30-year-old bridge barriers with new bicycle-height barriers, and coordinating the barrier replacement with installation of artwork on the bridge fascias.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (<i>City and State</i>) ADOT District Minor – US70 Bylas Widening, Bylas, AZ	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable) 2016
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager providing structural engineering services to widen both directions of the US70 roadway which includes: miscellaneous structural designs and details including pipe penetrations, metal railing connections, weir details, culvert headwall extensions and one non-standard culvert extension.	<input checked="" type="checkbox"/> Check if project performed with current firm	



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a. NAME		b. ROLE IN THIS CONTRACT		c. YEARS EXPERIENCE	
James Glock, PE		QA/QC Manager		1. TOTAL 33	2. WITH CURRENT FIRM 4
d. LOCATION (City and State) 1430 E. Fort Lowell Road, Suite 200 Tucson, AZ 85719					
e. EDUCATION (DEGREE AND SPECIALIZATION) MS Transportation BS Civil Engineering			f. PROFESSIONAL TRAINING – REGISTRATIONS AZ Civil PE #19227		
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) American Society of Civil Engineers - Past AZ Chapter President, since 1984; Women's Transportation Seminar, Tucson - Past Chapter President, Since 1991; American Public Works Association - Past Member, Urban Forum, Since 1993; Transportation Research Board - Transportation Programming, Planning and System Evaluation and Performance Measurement Committees, 1995-2005; Institute of Transportation Engineers, Since 1999					

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) Luis G. Gutierrez / Cushing Street Bridge, Tucson, AZ.	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE QA/QC Manager responsible for designing, preparing construction documents and performing post design services for the Luis Gutierrez / Cushing Street Bridge. The 320-ft long, 2-span bridge will include two traffic lanes, two modern streetcar tracks, two bicycle lanes and pedestrian ways. Extensive multi-stakeholder consensus building, public involvement and coordination with the City of Tucson Design Team / Community Steering Committee was conducted during the conceptual design phase of this unique structure.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) Kino Boulevard & 22nd Street Overpass, Tucson, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE QA/QC Manager providing structural and architectural design and production of construction documents, including cost estimate and special provisions, for the Kino Pkwy over 22nd Street Bridge as part of the Kino Pkwy/22nd Street Traffic Interchange Project. Responsible for coordinating the design processes for the multi-discipline team with specific responsibility for the bridge architecture component of the project. As part of this project, prepared the Structure Type Selection Report for the 22nd Street Bridge replacement over the UPRR yard. Design and Construction are not complete.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) SR347 UPRR Crossing, Pinal County, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) NA
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE QA/QC Manager providing structural services for the Design Concept Report and Environmental Studies SR 347, MP 172.80 to 173.40, Union Pacific Railroad (UPRR) Crossing. In coordination with the prime, SGI evaluated alternative crossings of the UPRR tracks and have submitted 15% plans as part of the Final Bridge Concept Report.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) Sunset Road: Silverbell Road to River Road, Pima County, AZ	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager responsible for the development of a Design Concept Report (DCR), an Environmental Assessment and Mitigation Report (EAMR), Final Plans, Specifications and Estimates of an initial phase for Sunset Road from Silverbell Road to an at-grade connection to the existing Eastbound I-10 Frontage Road. (Segment I).	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION (City and State) Houghton Road Bridge, Tucson, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for the Final Design Phases (Phase 2 & 3) of this project that consists of improving Houghton Road from South of Old Vail Rd/Mary Ann Cleveland Way to just north of Old Vail Connection (Sta 827+00 to 865+00) approximately 3800 ft to a six-lane divided roadway. Design and Construction are not complete.	<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 Jorge Montoya, PE, SE	b. ROLE IN THIS CONTRACT Structural Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 27	2. WITH CURRENT FIRM 9
d. LOCATION (City and State) 1430 E. Fort Lowell Road, Suite 200 Tucson, AZ 85719			
e. EDUCATION (DEGREE AND SPECIALIZATION) BS Civil Engineering		f. PROFESSIONAL TRAINING – REGISTRATIONS AZ Civil PE #40178 AZ Structural SE #51264	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) FHWA – Implementation of Load & Resistance Factor Rating (LRFR) Method			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Houghton Road Bridge, Tucson, AZ	2014	2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Project Engineer for the Final Design Phases (Phase 2 & 3) of this project that consists of improving Houghton Road from South of Old Vail Rd/Mary Ann Cleveland Way to just north of Old Vail Connection (Sta 827+00 to 865+00) approximately 3800 ft to a six-lane divided roadway. Design and Construction are not complete.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	Luis G. Gutierrez / Cushing Street Bridge, Tucson, AZ	2010	2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Engineer responsible for designing, preparing construction documents and performing post design services for the Luis Gutierrez / Cushing Street Bridge. The 320-ft long, 2-span bridge will include two traffic lanes, two modern streetcar tracks, two bicycle lanes and pedestrian ways. Extensive multi-stakeholder consensus building, public involvement and coordination with the City of Tucson Design Team / Community Steering Committee was conducted during the conceptual design phase of this unique structure.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	Kino Boulevard & 22nd Street Overpass, Tucson, AZ	2014	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Bridge Engineer providing structural design and production of construction documents, including cost estimate and special provisions, for the Kino Pkwy over 22nd Street Bridge as part of the Kino Pkwy/22nd Street Traffic Interchange Project. Design and Construction are not complete.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	I-10 Corridor Study: I-8 to Tangerine Road, Pima and Pinal Counties, AZ	2009	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Lead Structural Engineer responsible for the preparation of Bridge Concept Reports for 15 structures on the I-10 Corridor Study, Junction I-8 to Tangerine Road. Responsibilities included coordination with the prime consultant and ADOT Bridge Group, preparing alternative replacement structures, and preparing the Bridge Concept Reports.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	I-19: Valencia Road Traffic Interchange, ADOT, Tucson, AZ	2010	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager providing construction support to ADOT during the construction phase of this project. This project required substantial coordination as the team consisted of ADOT, the consultant, and several project managers to the contractor. Duties included responding to RFIs, supplying and modifying construction details, interpreting plan drawings and providing drawings to correct any possible design errors.	<input 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	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Jane Su	Project Engineer	1. TOTAL 5	2. WITH CURRENT FIRM 1
d. LOCATION (City and State) 808 North First Street, Phoenix, AZ 85004			
e. EDUCATION (DEGREE AND SPECIALIZATION) BS Civil Engineering MS Civil Engineering Ph.D. Civil Engineering		f. PROFESSIONAL TRAINING – REGISTRATIONS CA Civil PE #83671	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Adero Canyon Bridge, Fountain Hills, AZ	2015	2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer for the client selected SGI to design a 100 foot span bridge to accommodate two lanes of traffic, two bike lanes, two vehicle barriers, and a sidewalk for the Adero Canyon Wash Crossing. SGI is currently providing the design and construction documents for this new bridge. Design Engineer for designing a simple span precast prestressed concrete girder bridge founded on full-height abutments on spread footings. Additional responsibilities included preparing cost and quantity estimates.		
2.	Bridge Repair Recommendation Report and the Bridge Repair Final Design for Four Bridges, Glendale, AZ	2014	2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer for the evaluation of the City's bridge inventory, documented repair recommendations and prioritized repairs through a formal Priority Criteria Memorandum Process. In addition, bridge rehabilitation and repair designs for the following bridges: ACDC Bridge at Cactus Road, Grand Canal Bridge at 83rd Avenue, Agua Fria River Bridge at Glendale Avenue and ACDC Bridge at 59th Avenue.		
3.	Valentine Road Bridge, Pinal County, AZ	2014	2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Design Engineer responsible for preparing cost estimates for three bridge replacement alternatives. SGI provided structural engineering services to perform a load rating analysis and provided structural design to replace the existing bridge using an innovative GRS-IBS system.		
4.	Foundation-Mounted Light Pole, Tempe, AZ	2015	NA
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer for structural engineering services for the citywide inspection of 6,000 foundation-mounted light poles throughout Tempe, AZ. The project included inventory verification, condition assessment, section loss measurements and reporting to help the City manage its light pole inventory and schedule necessary pole replacements.		
5.	ADOT District Minor – US70 Bylas Widening	2015	2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer providing structural engineering services to widen both directions of the US70 roadway which includes: miscellaneous structural designs and details including pipe penetrations, metal railing connections, weir details, culvert headwall extensions and one non-standard culvert extension.		



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

a. NAME Matt Mitchell	b. ROLE IN THIS CONTRACT Senior Inspector	c. YEARS EXPERIENCE	
		1. TOTAL 17	2. WITH CURRENT FIRM 9
d. LOCATION (<i>City and State</i>) 808 North First Street, Phoenix, AZ 85004 and 1430 E. Fort Lowell Road, Suite 200 Tucson, AZ 85719			
e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>)		f. PROFESSIONAL TRAINING – REGISTRATIONS Traffic Control Supervisor – ATSSA, Arizona Technical Training Institute (ATTI) Certification, ACI Concrete Field Testing Tech, Grade 1, Mines Safety Health Administration (MSHA) Certification, American Traffic Safety Services Association (ATSSA) Certification, Occupational Safety & Health Administration (OSHA) – Construction Safety/ Health Training	
g. OTHER PROFESSIONAL QUALIFICATIONS (<i>Organizations, Awards, etc.</i>)			

H. RELEVANT PROJECTS

3.	(1) TITLE AND LOCATION (<i>City and State</i>) Kino Boulevard & 22nd Street Overpass, Tucson, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Inspector for the Kino Pkwy over 22nd Street Bridge as part of the Kino Pkwy/22nd Street Traffic Interchange Project. As Inspector Matt provided inspection of post tensioning activities including materials inspection, tensioning, and grouting.	Professional Services 2014	Construction (if applicable) 2015
		<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (<i>City and State</i>) Northwest Light Rail Extension – Dunlap Station Artwork – Phoenix, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Inspector for the structural design and detailing of the Northwest Extension, Dunlap Station Artwork structures. The structures were designed to hang from a 60' x 60' x 20' high and placed in 20'X20' bays, with intermediate framing at 10' spacing. The steel framing supports the shade material and approximately 10 art pieces. SGI designed the steel support pieces for the artwork and the connections to the main frame; details of the artwork were drafted by Colab Studio.	Professional Services 2013	Construction (if applicable) 2014
		<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (<i>City and State</i>) Aravaipa Bridge Load Rating, Pinal County, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Inspector to perform load rating for the superstructure according to the LRFR methodology. A field review was also conducted to confirm existing site conditions and obtain any missing, or additional pertinent information necessary to load rate the bridge. This 260ft simple span bridge had over 4000 members that were analyzed in a 3-D model with 8 different moving live load vehicles.	Professional Services 2014	Construction (if applicable) NA
		<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (<i>City and State</i>) ADOT US60 Pump Stations, Gilbert, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Senior Inspector to perform confined space inspection of four pump stations for ADOT along US60.	Professional Services 2015	Construction (if applicable) 2015
		<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (<i>City and State</i>) ADOT Temp Tech On-call, Statewide, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Senior Inspector on Temp Tech contract that supplements ADOT's staff on an as needed basis in the administration of highway construction projects.	Professional Services On-going	Construction (if applicable) On-going
		<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>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Royal Palm Pedestrian Bridge (On-Call)	2013	2014

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
City of Phoenix	\$482K	\$353K

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

As part of the City of Phoenix's On-Call Services, SGI was selected to manage and design the Royal Palms Bicycle and Pedestrian Bridge. The project included the design of a 12 foot wide bicycle and pedestrian bridge across the Arizona Canal north of Dunlap Avenue between 15th Avenue and 19th Avenue. The bridge is a single span pre-fabricated truss on drilled shaft foundations. The project also re-graded the canal path to make the travel paths acceptable for ADA criteria.

Structural Grace's role was Bridge Selection Report, Final Design, Bridge Design, Project Management, Post Design.

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

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

a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Cushing Street / Luis Gutierrez Bridge	2010	2014

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
City of Tucson	\$14.1M	\$9.8M

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

SGI designed and prepared construction documents for the Cushing Street/Luis Gutierrez Bridge over the Santa Cruz River. This project was the first segment to break ground on the 3.9 mile Modern Streetcar project for the City of Tucson. The 310-ft long, two-span bridge includes two traffic lanes, two modern streetcar tracks, two bicycle lanes and pedestrian ways. SGI provided the preliminary and final design for the new bridge which features significant historical detailing. In addition, SGI provided post design services including shop drawing and RFI reviews, field inspections, and extensive coordination with the Owner and Contractor during the construction phase. Named one of the Top 10 Bridges in US for 2012 by Roads & Streets Magazine.

Structural Grace's role was Design Concept, Bridge Design, Reinforced Concrete & Post Design.



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

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

a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
Bridge Repair Recommendation Report and Final Design of Four Bridges (Glendale On-call), Glendale, AZ	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
	2014	2015

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
City of Glendale	Various	Various

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

SGL provided an evaluation of the City's bridge inventory, documented repair recommendations and prioritized repairs through a formal Priority Criteria Memorandum Process. SGL also provided bridge rehabilitation and repair designs for the following bridges: ACDC Bridge at Cactus Road, Grand Canal Bridge at 83rd Avenue, Agua Fria River Bridge at Glendale Avenue and ACDC Bridge at 59th Avenue.

Structural Grace's role was Structural Review, Evaluation & Final Design.

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

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

a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
Kino Boulevard & 22nd Street Overpass, Tucson, AZ	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2014	2015

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
City of Tucson	\$400K	\$414K

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

SGL is providing structural design and construction documents, including cost estimates and special provisions, for the 1347-foot 22nd Street over the UPRR Gila Subyard and Barraza Aviation Parkway Bridge and a suspended bicycle and pedestrian bridge. A segmentally-constructed bridge was selected to mitigate disruption to the active UPRR Gila Subyard. In addition, through an internal value engineering process, SGL was able to reduce overall structure costs by recommending a separate steel-framed bicycle and pedestrian bridge that will be suspended between the east and west bound vehicular bridges. Design and Construction are not complete.

Structural Grace's role is the Bridge Design & Construction Documents



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

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

a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Aravaipa Bridge Load Rating (On-call), Pinal County, AZ	2014	NA

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Pinal County	\$47K	\$47K

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

SGI provided structural engineering services to perform a load rating analysis for the Aravaipa Bridge in eastern Pinal County. SGI was retained to determine the loading, member section properties and capacities for the proprietary pinned truss (commonly referred to as a Bailey Bridge) and produce a final Bridge Load Rating Report documenting the results of the analysis and recommending a safe posting load in order to satisfy the local Firewise Program requirements. SGI performed the load rating for the superstructure according to the LRFR methodology. A field review was also conducted to confirm existing site conditions and obtain any missing, or additional pertinent information necessary to load rate the bridge. This 260ft simple span bridge had over 4000 members that were analyzed in a 3-D model with 8 different moving live load vehicles.

Structural Grace's role was Bridge Load Rating.

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

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

a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Valentine Road Bridge (On-call), Pinal County, AZ	2015	2016

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Pinal County	\$43K	\$43K

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

SGI provided structural engineering services to perform a load rating analysis and provided structural design to replace the existing bridge using an innovative GRS-IBS system.

Structural Grace's Role Bridge Design & Construction Documents.



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

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

a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
District Minor – US70 Bylas Widening, Bylas, AZ	2013	2016

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
ADOT	\$19K	NA

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

SGI is providing structural engineering services for ADOT's US70 Bylas project. The purpose of this project is to widen both directions of the US70 roadway in Bylas, Arizona. As a result, many of the existing drainage structures required modifications. Structural Grace's scope was to provide miscellaneous structural designs and details including pipe penetrations, metal railing connections, weir details, culvert headwall extensions and one non-standard culvert extension. All designs were in accordance with the AASHTO LRFD Bridge Design Specifications, 6th Edition, however some existing B-Standard box culverts were allowed to be extended using the B-Standards.

Structural Grace's role was Structural Engineer.

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

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

a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Thomas Road Over Indian Bend Wash, Scottsdale, AZ	2010	2015

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
City of Scottsdale	\$17K	\$32K

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

Structural Grace, Inc. provided design services to modify an existing bridge in Scottsdale. The plan included raising the bridge sidewalks, replacing the 30-year-old bridge barriers with new bicycle-height barriers, and coordinating the barrier replacement with installation of artwork on the bridge fascias. SGI also provided post design services.

Structural Grace's role was Structural Engineering & Post Design Services.



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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.)

Structural Grace, Inc. (SGI) is a DBE certified Arizona based consulting firm with offices in Phoenix and Tucson; specializing in Structural Engineering. Founded in 1999, Structural Grace has 28 employees, including five Arizona registered professional engineers, and our design personnel have an average of 25 years of experience in structural engineering. In addition to engineers, our staff includes a registered architect, surveyors, CAD designers, special inspectors, and we have three certified (FHWA/NHI) bridge inspectors on staff. All personnel are located in Arizona.

SGI has extensive experience providing a full-range of structural engineering design services for bridges, urban and rural traffic interchanges, retaining and sound walls, noise/vehicle barriers, park improvements, drainage structures (box culverts, channel inlets/outlets and flow management structures), and miscellaneous structures including airport and water/wastewater facilities. We routinely provide special structural inspections, condition assessments and load ratings. We are also experienced in providing expedited plan reviews, including constructability reviews, special provision reviews and value engineering. SGI has earned a solid reputation for consistently providing high-quality structural engineering services and solutions that are creative, cost-effective and delivered on-time.

SGI has extensive on-call experience, having provided services under on-call and/or emergency contracts for Pinal County, City of Phoenix, ADOT, City of Tempe, Maricopa County DOT and FCD, City of Glendale, City of Tucson, Town of Marana, Pima County, Cochise County, Santa Cruz County and other public agencies throughout Arizona. In addition to design, SGI routinely provides structural inspections on the projects we design. Our Design and Construction Management Groups work together on a regular basis and are experienced in providing a seamless team to the client for inspections, investigations and special provisions.

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

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

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

Signature: Claudi Perchinelli

Date: 12/20/15

Name: Claudi Perchinelli, PE, SE

Title: President/CEO