



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

**STATE PROCUREMENT OFFICE**  
**Department of Administration**  
**100 North 15<sup>th</sup> Avenue, Suite 201**  
**Phoenix, Arizona 85007**

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

**1. Annual Request for Qualifications**

a. FIRM (OR BRANCH OFFICE ) NAME:	Entellus, Inc.
b. FIRM (OR BRANCH OFFICE) STREET:	2255 North 44 <sup>th</sup> Street, Suite 125
c. FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85008
f. YEAR ESTABLISHED:	1985
(g1). OWNERSHIP-TYPE:	Corporation
(g2) OWNERSHIP- SMALLBUSINESSSTATUS:	Small Business
h. POINTOFCONTACTNAMEANDTITLE:	Rosa Olivas, Marketing Director
i. POINTOFCONTACTTELEPHONENUMBER:	(602) 889-4453
j. POINTOFCONTACTE-MAILADDRESS:	rolivas@entellus.com
k. NAMEOFFIRM (If block 1 is a branch office):	





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3. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST YEAR

a. Approximate No. of Projects	b. Experience	c. Revenue Index Number (see below)
1	Area Master Planning	4
2	Codes, Standards, Ordinances	3
1	Commercial Building (Low Rise); Shopping Centers	2
1	Community Facilities	1
5	Construction Management	4
3	Construction Surveying	3
5	Cost Estimating; Cost Engineering and Analysis; Parametric Costing;	2
1	Dams (Earth; Rock); Dikes; Levees	3
1	Design-Build – Preparation of Request for Proposal	1
8	Digital Elevation and Terrain Model Development	3
1	Design and Planning Structured Parking Facilities	1
2	Educational Facilities; Classrooms	2
2	Forensic Engineering	1
2	Garages; Vehicle Maintenance Facilities; Parking	1
6	Geodetic Surveying: Ground and Airborne	2
8	Highways; Streets; Airfield Paving; Parking Lots	4
1	Hotels; Motels	1
6	Housing (Residential, Multi-family; Apartments; Condominiums)	4
2	Industrial Building; Manufacturing Plants	3
16	Infrastructure	5
4	Irrigation; Drainage	3
12	Land Surveying	4
2	LEED Accredited A/E	2
2	Mining and Mineralogy	2



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1	Office Buildings; Industrial Parks	1
4	Plumbing and Piping Design	2

a. Approximate No. of Projects	b.Experience	c. Revenue Index Number (see below)
2	Railroad; Rapid Transit	2
1	Recreation Facilities (Parks, Marinas, etc.)	1
4	Sewage Collection, Treatment and Disposal	2
2	Solid Waste; Incineration; Landfill	2
3	Surveying; Planning; Mapping; Floodplain Studies	2
2	Sustainable Design	2
4	Storm Water Handling and Facilities	2
6	Specifications Writing	2
4	Traffic and Transportation Engineering	3
5	Topographic Surveying and Mapping	2
6	Transportation	3
2	Urban Renewals; Community Development	2
6	Water Resources, Hydrology Ground Water	3
4	Water Supply; Treatment and Distribution	2
2	Water Well Rehabilitation; Water Well Work	1

**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 \$25million |
| 4. \$500,000 to less than \$1 million   | 9. \$25 million to less than \$50million |
| 5. \$1 million to less than \$2 million | 10. \$50 million or greater              |



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

a. NAME  <b>Michael J. Bonar</b>	b. ROLE IN THIS CONTRACT  <b>Project Principal</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>32</b>	2. WITH CURRENT FIRM <b>27</b>
d. FIRM NAME AND LOCATION <i>(City and State)</i> <b>Entellus, Inc. 2255 North 44th Street, Suite 125 Phoenix, Arizona 85008</b>			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i>  Bachelor of Science Civil Engineering, Purdue University Masters of Business Administration Project Management, Arizona State		f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i>  Arizona #20321 Civil Engineer / Utah #7810549-2202 Civil Engineer / Registered AZ #51995 Architectural Engineering / Associate Value Specialist (AVS) #201206034	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> ACEC of Arizona Past President (2010-2011) and Board Member (2003-2012) / American Public Works Association (APWA) Arizona Chapter Past-President (2005), Association of General Contractors: Co-Chair Subcommittee for Alternative Project Delivery Methods			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
1)	<b>Engineering Standards Manual Update, Town of Gilbert , AZ</b>	<b>2013-TBD</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager.</b> Town of Gilbert needed to complete a major update to their existing Public Works and Engineering Standards and Details by developing an integrated Engineering Design and Construction Standards Manual (Manual). The Manual will set forth the minimum requirements for construction of and improvements to public and private streets; water, sewer, and reclaimed water utilities; storm water systems; placement and operation of any other structures within Gilbert rights-of-way and easements, including streetlights and traffic signals; and all excavation and grading within Gilbert.		
2)	<b>Camelback Core Booster Pump Station &amp; Water Main Transmission, City of Phoenix, AZ</b>	<b>2009</b>	<b>2011</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Principal.</b> A coalition of developers retained Entellus to perform an independent evaluation of water infrastructure improvements for Zones 1, 1A, and 2 within City of Phoenix. The analysis on the Public-Private-Partnership (P3) project was prompted by the City to verify the scope of local water improvements to support additional commercial development in the Camelback Core corridor. Entellus designed three miles of 20" through 42" waterlines and appurtenances. The alignment was developed after evaluating several corridors in the mature neighborhood development.		
3)	<b>Optima Sonoran Village, Scottsdale, AZ</b>	<b>2013</b>	<b>2014</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Principal.</b> Town of Gilbert Entellus was retained by Optima, a commercial developer, to provide the civil engineering components for a multi-phase, mid-rise, mixed-use apartment community located at 68th Street and Camelback Road in Scottsdale, Arizona. At buildout the project will consist of approximately 800 units in 4 buildings on 10 acres. Phase One consisted of primary site development plus one 200 unit 6-story building.		
4)	<b>Eastmark, City of Mesa , AZ</b>	<b>2011</b>	<b>2012</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Principal.</b> Entellus was retained by DMB Associates, Inc to design 11 separate parcels containing approximately 775 lots. The parcel designs were completed on a very fast-track schedule and customized parcel designs to meet the preferences of the seven builders that purchased the parcels. Parcels included highly amenitized parks that also served as retention basins. Extensive coordination with the landscape architect for both rough and finish grading, was completed. A bleed system, unique to the City of Mesa, was designed for each park.		
5)	<b>Pinal County-Wide Area Drainage Master Plan (ADMP), Pinal County, AZ</b>	<b>2005-2010</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Principal.</b> Pinal County retained Entellus for professional engineering services necessary to produce a County Wide Area Drainage Master Plans (ADMP) including an Existing Conditions Evaluation. The County was divided into 20 somewhat independent watersheds which include areas ranging from undeveloped desert to developed urban areas.		



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

a. NAME  <b>Timothy D. Crall</b>	b. ROLE IN THIS CONTRACT  <b>Project Manager</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>30</b>	2. WITH CURRENT FIRM <b>11</b>
d. FIRM NAME AND LOCATION <i>(City and State)</i> <b>Entellus, Inc. 2255 North 44th Street, Suite 125 Phoenix, Arizona 85008</b>			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Science Civil Engineering, Tri-State University		f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Arizona Civil Engineer #22861/ California Civil Engineer #45598 / Nevada Civil Engineer #11632 / New Mexico Civil Engineer #12898	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Program Committee, Urban Land Institute (ULI), Valley Partnership, Arizona Forward			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Westwind Preparatory School, City of Phoenix , AZ</b>	(2) Year Completed	
		Professional Services <b>2013</b>	Construction <i>(if applicable)</i> <b>2014</b>
1)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager.</b> This project is located on two parcels owned by Westwind Children Services located on the south side of Northern Avenue, west of 19th Avenue in Phoenix. Westwind Preparatory Academy and Westwind Middle School Academy are currently operating from a number of existing buildings on these parcels. The project provided several additional new buildings on the east half of the campus. A future phase calls for remodeling the existing buildings on the northwest portion and demolishing the buildings on the southwest portion to replace them with a parking lot and drop off zone.		
	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Optima Sonoran Village, Scottsdale, AZ</b>	(2) Year Completed	
		Professional Services <b>2013</b>	Construction <i>(if applicable)</i> <b>2014</b>
2)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager.</b> Entellus was retained by Optima, a commercial developer, to provide the civil engineering components for a multi-phase, mid-rise, mixed-use apartment community located at 68th Street and Camelback Road in Scottsdale, Arizona. At buildout the project will consist of approximately 800 units in 4 buildings on 10 acres. Phase One consisted of primary site development plus one 200 unit 6-story building.		
	(1) TITLE AND LOCATION <i>(City and State)</i> <b>La Mesita Apartments, City of Mesa , AZ</b>	(2) Year Completed	
		Professional Services <b>2013</b>	Construction <i>(if applicable)</i> <b>2014</b>
3)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager.</b> This project is located on approximately 1.43 acres east of Roosevelt Road in Downtown Phoenix. The acreage covers lots 6, 7, and 8 of the La Mesita final plat. Current development of the site includes several existing one-story buildings. The proposed project developed several four-story buildings that will contain approximately 80 rental units. Support services and recreation areas are also to be incorporated into the development.		
	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Eastmark, City of Mesa , AZ</b>	(2) Year Completed	
		Professional Services <b>2011</b>	Construction <i>(if applicable)</i> <b>2012</b>
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 <b>Project Manager.</b> Entellus was retained by DMB Associates, Inc to design 11 separate parcels containing approximately 775 lots. The parcel designs were completed on a fast-track schedule and customized parcel designs to meet the preferences of the seven builders that purchased the parcels. Parcels included highly amenitized parks that also served as retention basins. Extensive coordination with the landscape architect for both rough and finish grading, was completed. A bleed system, unique to the City of Mesa, was designed for each park.		
	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Evans Churchill Substation, Phoenix, AZ</b>	(2) Year Completed	
		Professional Services <b>2007</b>	Construction <i>(if applicable)</i> <b>2008</b>
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 <b>Project Manager.</b> Entellus was the civil lead for a new architecturally enhanced substation to provide additional electrical service capacity to the downtown Phoenix area. It also included assemblage of six contiguous parcels and provided replat, grading and drainage plans, offsite water line, and offsite paving plans.		



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

a. NAME  <b>Alberto Gonzalez</b>	b. ROLE IN THIS CONTRACT  <b>Project Engineer</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>12</b>	2. WITH CURRENT FIRM <b>12</b>
d. FIRM NAME AND LOCATION <i>(City and State)</i> <b>Entellus, Inc. 2255 North 44th Street, Suite 125 Phoenix, Arizona 85008</b>			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Science Civil Engineering, Arizona State University		f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Arizona Civil Engineer #49432	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Az Society of Civil Engineers (AzSCE) Phoenix Branch Past President, AzSCE Younger Members Forum, American Council of Engineering Companies (ACEC) of Arizona / ACEC Leadership in Engineering Administration Program (LEAP)			

**H. RELEVANT PROJECTS**

1) <b>Project Engineer.</b> This project is located on two parcels owned by Westwind Children Services located on the south side of Northern Avenue, west of 19th Avenue in Phoenix. Westwind Preparatory Academy and Westwind Middle School Academy are currently operating from a number of existing buildings on these parcels. The project provided several additional new buildings on the east half of the campus. A future phase calls for remodeling the existing buildings on the northwest portion and demolishing the buildings on the southwest portion to replace them with a parking lot and drop off zone.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Westwind Preparatory School, City of Phoenix , AZ</b>	(2) Year Completed	
		Professional Services <b>2013</b>	Construction <i>(if applicable)</i> <b>2014</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
2) <b>Project Engineer.</b> Entellus was retained by Optima, a commercial developer, to provide the civil engineering components for a multi-phase, mid-rise, mixed-use apartment community located at 68th Street and Camelback Road in Scottsdale, Arizona. At buildout the project will consist of approximately 800 units in 4 buildings on 10 acres. Phase One consisted of primary site development plus one 200 unit 6-story building.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Optima Sonoran Village, Scottsdale, AZ</b>	(2) Year Completed	
		Professional Services <b>2013</b>	Construction <i>(if applicable)</i> <b>2014</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
3) <b>Project Engineer.</b> This project is located on approximately 1.43 acres east of Roosevelt Road in Downtown Phoenix. The acreage covers lots 6, 7, and 8 of the La Mesita final plat. Current development of the site includes several existing one-story buildings. The proposed project developed several four-story buildings that will contain approximately 80 rental units. Support services and recreation areas are also to be incorporated into the development.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>La Mesita Apartments, City of Mesa , AZ</b>	(2) Year Completed	
		Professional Services <b>2013</b>	Construction <i>(if applicable)</i> <b>2014</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
4) <b>Project Engineer.</b> Entellus was retained by DMB Associates, Inc to design 11 separate parcels containing approximately 775 lots. The parcel designs were completed on a very fast-track schedule and customized parcel designs to meet the preferences of the seven builders that purchased the parcels. Parcels included highly amenitized parks that also served as retention basins. Extensive coordination with the landscape architect for both rough and finish grading, was completed. A bleed system, unique to the City of Mesa, was designed for each park.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Eastmark, City of Mesa , AZ</b>	(2) Year Completed	
		Professional Services <b>2011</b>	Construction <i>(if applicable)</i> <b>2012</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
5) <b>Project Engineer.</b> Entellus was the civil lead for a new architecturally enhanced substation to provide additional electrical service capacity to the downtown Phoenix area. It also included assemblage of six contiguous parcels and provided replat, grading and drainage plans, offsite water line, and offsite paving plans.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Evans Churchill Substation, Phoenix, AZ</b>	(2) Year Completed	
		Professional Services <b>2007</b>	Construction <i>(if applicable)</i> <b>2008</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <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  <b>William Linck</b>	b. ROLE IN THIS CONTRACT  <b>Project Engineer</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>19</b>	2. WITH CURRENT FIRM <b>17</b>
d. FIRM NAME AND LOCATION (City and State) <b>Entellus, Inc. 2255 North 44th Street, Suite 125 Phoenix, Arizona 85008</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION) <b>Bachelor of Science Civil Engineering, Marquette University</b>		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>Registered AZ #20321 Civil Engineer / Level I Site Assessment Certification</b>	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) <b>American Council of Engineering Companies (ACEC) of Arizona / ACEC Leadership in Engineering Administration Program (LEAP) / American Public Works Association (APWA) Arizona Chapter / As OSHA 40-hour Hazardous Waste Site Operations Training</b>			

**H. RELEVANT PROJECTS**

1)	(1) TITLE AND LOCATION (City and State) <b>Engineering Standards Manual Update, Town of Gilbert , AZ</b>	(2) Year Completed	
		Professional Services <b>7/2013-TBD</b>	Construction (if applicable) <b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Engineer.</b> Town of Gilbert needed to complete a major update to their existing Public Works and Engineering Standards and Details by developing an integrated Engineering Design and Construction Standards Manual (Manual). The Manual will set forth the minimum requirements for construction of and improvements to public and private streets; water, sewer, and reclaimed water utilities; storm water systems; placement and operation of any other structures within Gilbert rights-of-way and easements, including streetlights and traffic signals; and all excavation and grading within Gilbert.		
2)	(1) TITLE AND LOCATION (City and State) <b>Camelback Core Booster Pump Station &amp; Water Main Transmission, City of Phoenix, AZ</b>	(2) Year Completed	
		Professional Services <b>2009</b>	Construction (if applicable) <b>2011</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Engineer.</b> A coalition of developers retained Entellus to perform an independent evaluation of water infrastructure improvements for Zones 1, 1A, and 2 within City of Phoenix. The analysis on the Public-Private-Partnership (P3) project was prompted by the City to verify the scope of local water improvements to support additional commercial development in the Camelback Core corridor. Entellus designed three miles of 20" through 42" waterlines and appurtenances. The alignment was developed after evaluating several corridors in the mature neighborhood development.		
3)	(1) TITLE AND LOCATION (City and State) <b>Van Buren Street, 67th Avenue to 75th Avenue, Phoenix, AZ</b>	(2) Year Completed	
		Professional Services <b>8/2009</b>	Construction (if applicable) <b>12/2010</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager.</b> City of Phoenix retained Entellus to widen Van Buren Street from three to five lanes from 67th Avenue to 75th Avenue. Project included major arterial paving, storm drain, street lighting, milling and overlay, curb, gutter, sidewalk, tiling SRP and RID irrigation ditches, and major utility relocations including overhead electric lines, buried gas lines, and Qwest facilities. Storm drain outfall was designed/coordinated to utilize a new FCDMC retention basin. Entellus prepared right-of-way maps, parcel exhibits and legal descriptions for property acquisition on the project. Entellus coordinated with the City's real Estate Department on the right-of-way acquisition and USA Fee land exchange. Due to budget constraints at the City, construction was delayed for over three years. Entellus was able to complete design and update plans based on changed conditions without change orders.		
4)	(1) TITLE AND LOCATION (City and State) <b>Centennial Way Transportation Enhancements Design-Build, City of Phoenix , AZ</b>	(2) Year Completed	
		Professional Services <b>5/2011</b>	Construction (if applicable) <b>2/2012</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager.</b> Entellus was retained by DMB for the Centennial Way (19th Ave to 7th Ave) Design-Build project, Entellus was the design engineer and Achen-Gardner was the contractor. The project consisted of arterial street mill and overlay, decorative sidewalks and crosswalks, ADA upgrades, bike lanes, street and pedestrian lighting, shade structures, benches, decorative displays, wayfinding signage, planting and irrigation, and other street beautification items. Entellus also provided right-of-way coordination, including development of IGA's for future maintenance. This transportation enhancement project represents a successful collaboration between the City of Phoenix, the State of Arizona, and the federal government to not only execute the Arizona State Capitol 2012 Plan, but also celebrate Arizona's historical heritage and make a positive step to achieve the 2020 vision for the corridor.		
5)	(1) TITLE AND LOCATION (City and State) <b>Mesa Drive and Southern Avenue Improvements, City of Mesa</b>	(2) Year Completed	
		Professional Services <b>4/2012</b>	Construction (if applicable) <b>11/2013</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager.</b> Entellus was retained by the City of Mesa to design intersection improvements of Mesa Drive and Southern Avenue. The intersection is located approximately one-half mile north of US 60. This project included: arterial road widening, curb and gutter, sidewalk, storm drain, watermain, street lights, traffic signals and utility coordination and relocation, enhanced pedestrian amenities, artistic entry monuments, bus shelters and enhanced landscaping, SRP irrigation relocation, and extensive coordination with property owners. These improvements provide capacity and access for multi-modal users, which increased the quality of life for Mesa's residents and visitors. The project was constructed using the CMAR delivery method requiring a significant amount of coordination with the contractor. Entellus obtained encroachment permits from the UPRR.		





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

a. NAME <b>Breanna Connolly</b>	b. ROLE IN THIS CONTRACT <b>Project Engineer</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>7</b>	2. WITH CURRENT FIRM <b>6</b>
d. FIRM NAME AND LOCATION (City and State) <b>Entellus, Inc. 2255 North 44th Street, Suite 125 Phoenix, Arizona 85008</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science Civil Engineering, University of Arizona		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Arizona #52606 Civil Engineer	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) American Council of Engineering Companies (ACEC) of Arizona / ACEC Leadership in Engineering Administration Program (LEAP) / American Public Works Association (APWA) Arizona Chapter			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
	<b>Sossaman Road PRV Removal and Water Line Replacement, City of Mesa, AZ</b>	<b>2014</b>	<b>2014</b>
1)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Engineer.</b> With the closure of Williams Air Force Base in the 1990s, the City of Mesa became the owner and operator of portions of the existing water system. Over the years, the City has made various improvements to the systems. The City of Mesa retained Entellus to convert portions of the areas within the airport to the system pressure in the Falcon Field water pressure zone. Improvements in these areas included installation of new waterlines, removal and abandonment of existing waterlines, removal of two pressure reducing valves (PRV Nos. 22 & 34) along Sossaman Road, installation of new services and meters, removal of existing underground master meters, installation of new above ground master meters, installation of new pressure reducing valves on existing or proposed services and other improvements.		
	<b>Camelback Core Booster Pump Station &amp; Water Main Transmission, City of Phoenix, AZ</b>	<b>2009</b>	<b>2011</b>
2)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Engineer.</b> A coalition of developers retained Entellus to perform an independent evaluation of water infrastructure improvements for Zones 1, 1A, and 2 within City of Phoenix. The analysis on the Public-Private-Partnership (P3) project was prompted by the City to verify the scope of local water improvements to support additional commercial development in the Camelback Core corridor. Entellus designed three miles of 20" through 42" waterlines and appurtenances. The alignment was developed after evaluating several corridors in the mature neighborhood development.		
	<b>Van Buren Street, 67th Avenue to 75th Avenue, Phoenix, AZ</b>	<b>2009</b>	<b>2010</b>
3)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Engineer.</b> City of Phoenix retained Entellus to widen Van Buren Street from three to five lanes from 67th Avenue to 75th Avenue. Project included major arterial paving, storm drain, street lighting, milling and overlay, curb, gutter, sidewalk, tiling SRP and RID irrigation ditches, and major utility relocations including overhead electric lines, buried gas lines, and Qwest facilities. Storm drain outfall was designed/coordinated to utilize a new FCDMC retention basin. Entellus prepared right-of-way maps, parcel exhibits and legal descriptions for property acquisition on the project. Entellus coordinated with the City's real Estate Department on the right-of-way acquisition and USA Fee land exchange. Due to budget constraints at the City, construction was delayed for over three years. Entellus was able to complete design and update plans based on changed conditions without change orders.		
	<b>Centennial Way Transportation Enhancements Design-Build, City of Phoenix, AZ</b>	<b>2011</b>	<b>2012</b>
4)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Engineer.</b> Entellus was retained by DMB for the Centennial Way (19th Ave to 7th Ave) Design-Build project, Entellus was the design engineer and Achen-Gardner was the contractor. The project consisted of arterial street mill and overlay, decorative sidewalks and crosswalks, ADA upgrades, bike lanes, street and pedestrian lighting, shade structures, benches, decorative displays, wayfinding signage, planting and irrigation, and other street beautification items. Entellus also provided right-of-way coordination, including development of IGA's for future maintenance. This transportation enhancement project represents a successful collaboration between the City of Phoenix, the State of Arizona, and the federal government to not only execute the Arizona State Capitol 2012 Plan, but also celebrate Arizona's historical heritage and make a positive step to achieve the 2020 vision for the corridor.		
	<b>Mesa Drive and Southern Avenue Improvements, City of Mesa</b>	<b>2012</b>	<b>2013</b>
5)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Engineer.</b> Entellus was retained by the City of Mesa to design intersection improvements of Mesa Drive and Southern Avenue. The intersection is located approximately one-half mile north of US 60. This project included: arterial road widening, curb and gutter, sidewalk, storm drain, watermain, street lights, traffic signals and utility coordination and relocation, enhanced pedestrian amenities, artistic entry monuments, bus shelters and enhanced landscaping, SRP irrigation relocation, and extensive coordination with property owners. These improvements provide capacity and access for multi-modal users, which increased the quality of life for Mesa's residents and visitors. The project was constructed using the CMAR delivery method requiring a significant amount of coordination with the contractor. Entellus obtained encroachment permits from the UPRR.		



**ATTACHMENT I – General Qualifications**

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100 North 15<sup>th</sup> Avenue, Suite 201  
Phoenix, Arizona 85007**

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

a. NAME  <b>Denis Howe</b>	b. ROLE IN THIS CONTRACT  <b>Project Engineer</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>34</b>	2. WITH CURRENT FIRM <b>18</b>
d. FIRM NAME AND LOCATION <i>(City and State)</i> <b>Entellus, Inc. 2255 North 44th Street, Suite 125 Phoenix, Arizona 85008</b>			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Science Civil Engineering, Brigham Young University		f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Arizona #19584 Civil Engineer / Utah #171466-2202 Civil Engineer	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Az Society of Civil Engineers (AzSCE) Phoenix Branch, Past President / AzSCE Arizona Section, Treasurer / ACEC of Arizona Roads & Streets Committee / American Public Works Association (APWA) Arizona Chapter			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
1)	<b>District Minor On-call, Arizona Department of Transportation (ADOT)</b>	<b>2011-Current</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager.</b> Entellus was selected to assist ADOT Districts in performing pre-construction activities to take a task order (TO) from concept to construction. These services allow ADOT to take care of local issues as they are identified. Each separate Task Order (TO) in this contract have unique scope-of-work, defined length of service and individual notice-to-proceed. The duration of services depends on the specific scope-of-services for each task. Entellus has worked with the Phoenix Construction District and currently with the Prescott District on task orders that required the development of complete construction documents including plans, specifications, and cost estimates.		
2)	<b>Gilbert Road Improvements, City of Chandler, AZ</b>	<b>2009 to present</b>	<b>2011 to present</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager.</b> Entellus was retained by the City of Chandler to widen Gilbert Road from Germann Road to Queen Creek Road in Phase I and then an additional four miles from Queen Creek Road to Hunt Highway in Phase II. The improvements widened Gilbert Road from two lanes to a six lane urban section with continuous curb and gutter, raised median, sidewalks, water and wastewater pipe, street drainage, retention basins, street lights and traffic signals at a major intersection. The work included dry and wet utility coordination and relocation, preparation of plans, drainage report, right-of-way and legal descriptions, specifications package and cost estimate.		
3)	<b>Kelvin Bridge, Pinal County, AZ</b>	<b>2013</b>	<b>2014</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager.</b> Entellus performed design services to prepare a Design Concept Report (DCR), Environmental Assessment (EA), Construction Plans, specifications and estimates for the Kelvin Road Bridge Replacement ADOT Structure #8441 over the Gila River. Scope of services included data collection (topographic survey, aerial survey, geotechnical investigation, drainage, right-of-way entry), Hydrology/Hydraulics (existing data review, hydrologic analysis, bridge hydraulics, sediment transport and scour analysis, drainage report), roadway and bridge design. Due to budget constraints at County, design and construction were delayed for over five years. Entellus is currently finalizing plans to ADOT Standards as the County obtained federal funds.		
4)	<b>SR303L, Thomas Road to Camelback Road, ADOT</b>	<b>2013-2014</b>	<b>2014</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager.</b> This segment of the SR303L Freeway improvements from Thomas to Camelback road is within the Cities of Goodyear and Glendale limits, with some portions in unincorporated Maricopa County, Arizona. This project is one of seven projects identified for the I-10 to US60 segment of SR303L. It provided a 3+0 lane configuration to the outside, while the ultimate facility will have two additional lanes in each direction to the inside to provide a 4+1 lane configuration. This project provided two new traffic interchanges at Indian School and Camelback Roads. Specifically, Entellus was responsible for the Indian School Road design and ties to the adjacent ramps. Entellus also provided wet utility designs for water line relocations for the Liberty Water Company throughout the project corridor including agency reviews and permitting through the Maricopa County Environmental Services Division (MCESD).		
5)	<b>Shea Boulevard Improvements, Fountain Hills, AZ</b>	<b>2012</b>	<b>2012</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager.</b> Entellus completed a contract to provide services to widen the existing two-lane westbound segment of Shea Boulevard between Fountain Hills Boulevard and Palisades Boulevard. The widening added a third travel lane, bicycle lane, multi-purpose lane, curb and gutter and a median cross over. Additional turn lanes were constructed at both the Palisades Boulevard and Fountain Hills Boulevard intersections. The Town obtained federal funding in the form of STP funds managed through the ADOT Local Government Section. The project scope included a Design Concept Report (DCR), Environmental Categorical Exclusion, Construction Documents and Post-Design Services.		



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Phoenix, Arizona 85007**

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

a. NAME  <b>Hernan Aristizabal</b>	b. ROLE IN THIS CONTRACT  <b>Project Engineer</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>24</b>	2. WITH CURRENT FIRM <b>21</b>
d. FIRM NAME AND LOCATION (City and State) <b>Entellus, Inc. 2255 North 44th Street, Suite 125 Phoenix, Arizona 85008</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION)  Bachelor of Science Agricultural and Irrigation Engineering, Utah State University / Masters of Civil and Environmental Engineering, Utah State University		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)  Arizona #29737 Civil Engineer / Utah #177010-2202 Civil Engineer / Certified Floodplain Manager	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) ACEC of Arizona / American Public Works Association Arizona Chapter / Arizona Floodplain Management Association / Association of State Floodplain Managers			

**H. RELEVANT PROJECTS**

1)	(1) TITLE AND LOCATION (City and State) <b>East Mesa Area Drainage Master Plan (ADMP) Update, Flood Control District of Maricopa County</b>	(2) Year Completed	
		Professional Services <b>2012/2014</b>	Construction (if applicable) <b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager.</b> Town of Gilbert needed to complete a major update to their existing Public Works and Engineering Standards and Details by developing an integrated Engineering Design and Construction Standards Manual (Manual). The Manual set forth the minimum requirements for construction of and improvements to public and private streets; water, sewer, and reclaimed water utilities; storm water systems; placement and operation of any other structures within Gilbert rights-of-way and easements, including streetlights and traffic signals; and all excavation and grading within Gilbert.		
2)	(1) TITLE AND LOCATION (City and State) <b>Pinal County-Wide ADMP, Pinal County, AZ</b>	(2) Year Completed	
		Professional Services <b>2005-2010</b>	Construction (if applicable) <b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager.</b> Pinal County retained Entellus for professional engineering services necessary to produce County Wide Area Drainage Master Plans (ADMP) including an Existing Conditions Evaluation. The County was divided into 20 independent watersheds which included areas ranging from undeveloped desert to developed urban areas.		
3)	(1) TITLE AND LOCATION (City and State) <b>Eloy Industrial Park On-call, Pinal County, AZ</b>	(2) Year Completed	
		Professional Services <b>2013</b>	Construction (if applicable) <b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Principal.</b> The Eloy Industrial Park Analysis was performed for the Pinal County Flood Control District as part of an on-call contract with Pinal County Public Works. This project in the Lower Santa Cruz River Watershed performed several analyses with the primary objective of establishing the existing conditions at the Santa Cruz River & Greene Canal split flow and at the Eloy Industrial Park site.		
4)	(1) TITLE AND LOCATION (City and State) <b>Pima Road / Deer Valley Channel Design, City of Scottsdale , AZ</b>	(2) Year Completed	
		Professional Services <b>2011</b>	Construction (if applicable) <b>/2012</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Principal.</b> Entellus was contracted by Scottsdale to perform roadway and drainage improvements along the Pima Road Corridor. The drainage directly affected several homeowners associations and required significant coordination. Entellus updated the existing HEC-1 models to reflect the current conditions as well as to reflect the proposed improvements to the area. The City and the HOAs wanted to be able to definitively see the effects of the improvements on the flood prone area for an array of storms, not just the 100-year event. Entellus generated FLO-2D models for the 2, 5, 10, 25, 50 and 100-year events. The purpose of utilizing the various storm events was to confirm the existing conditions (FLO-2D inundation maps were utilized to confirm known nuisance and large event flooding areas) as well as establish how the drainage improvements functioned for the different storm events and to win acceptance by the various HOAs. Results from the modeling produced and provided the City with visually simple graphics communicating the complex modeling results and the improvements to the drainage conditions that the proposed channel and storm drain would have on the area. These graphics were presented to the various HOAs and stakeholders and ultimately helped gain their support for the project Entellus also performed the design of the 2 miles of large channel along Pima road, a ½ mile storm drain along Pima and performed upgrades to the outlet channel along Deer Valley.		
5)	(1) TITLE AND LOCATION (City and State) <b>Coyote Wash Floodplain Delineation, Yuma County , AZ</b>	(2) Year Completed	
		Professional Services <b>2013-TBD</b>	Construction (if applicable) <b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager.</b> Entellus was retained by Yuma County to perform detailed floodplain delineation for 12 miles of Coyote Wash between the Gila River and the Barry Goldwater Bombing Range. This included determination of the flows, development of floodplain/floodway boundaries, and preparation of FEMA package. Several different analyses were carried out to determine how flow would be affected by the dike and to determine the best way to realistically model flooding potential at and downstream of the dike. Our analysis showed that the dike would not be exposed to more than 3 to 4 feet of head during a 100-year storm; therefore, it was determined that a catastrophic failure was unlikely. This delineation along with Entellus' delineation of Wash A and the Gila River were submitted to FEMA and accepted with only minor comments.		



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Phoenix, Arizona 85007**

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

a. NAME  <b>Ryan Sauer</b>	b. ROLE IN THIS CONTRACT  <b>Project Engineer</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>13</b>	2. WITH CURRENT FIRM <b>13</b>
d. FIRM NAME AND LOCATION (City and State) <b>Entellus, Inc. 2255 North 44th Street, Suite 125 Phoenix, Arizona 85008</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION) <b>Bachelor of Science Civil Engineering, Arizona State University / Masters of Science, Civil &amp; Environmental Engineering, Arizona State University</b>		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>Arizona #46866 Civil Engineer / Certified Floodplain Manager</b>	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) <b>ACEC of Arizona / Arizona Floodplain Management Association (AFMA) / Association of State Floodplain Managers (ASFM)</b>			

**H. RELEVANT PROJECTS**

1)	(1) TITLE AND LOCATION (City and State) <b>East Mesa Area Drainage Master Plan (ADMP) Update, Flood Control District of Maricopa County</b>	(2) Year Completed	
		Professional Services <b>2012-2013</b>	Construction (if applicable) <b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Engineer. Town of Gilbert needed to complete a major update to their existing Public Works and Engineering Standards and Details by developing an integrated Engineering Design and Construction Standards Manual (Manual). The Manual set forth the minimum requirements for construction of and improvements to public and private streets; water, sewer, and reclaimed water utilities; storm water systems; placement and operation of any other structures within Gilbert rights-of-way and easements, including streetlights and traffic signals; and all excavation and grading within Gilbert.</b>		
2)	(1) TITLE AND LOCATION (City and State) <b>Pinal County-Wide ADMP, Pinal County, AZ</b>	(2) Year Completed	
		Professional Services <b>2005-2010</b>	Construction (if applicable) <b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Engineer. Pinal County retained Entellus for professional engineering services necessary to produced County Wide Area Drainage Master Plans (ADMP) including an Existing Conditions Evaluation. The County was divided into 20 independent watersheds which included areas ranging from undeveloped desert to developed urban areas.</b>		
3)	(1) TITLE AND LOCATION (City and State) <b>Eloy Industrial Park On-call, Pinal County, AZ</b>	(2) Year Completed	
		Professional Services <b>2013</b>	Construction (if applicable) <b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Engineer. The Eloy Industrial Park Analysis was performed for the Pinal County Flood Control District as part of an on-call contract with Pinal County Public Works. This project in the Lower Santa Cruz River Watershed performed several analyses with the primary objective of establishing the existing conditions at the Santa Cruz River &amp; Greene Canal split flow and at the Eloy Industrial Park site.</b>		
4)	(1) TITLE AND LOCATION (City and State) <b>Pima Road / Deer Valley Channel Design, City of Scottsdale, AZ</b>	(2) Year Completed	
		Professional Services <b>2011</b>	Construction (if applicable) <b>2012</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Engineer. Entellus was contracted by Scottsdale to perform roadway and drainage improvements along the Pima Road Corridor. The drainage directly affected several homeowners associations and required significant coordination. Entellus updated the existing HEC-1 models to reflect the current conditions as well as to reflect the proposed improvements to the area. The City and the HOAs wanted to be able to definitively see the effects of the improvements on the flood prone area for an array of storms, not just the 100-year event. Entellus generated FLO-2D models for the 2, 5, 10, 25, 50 and 100-year events. The purpose of utilizing the various storm events was to confirm the existing conditions (FLO-2D inundation maps were utilized to confirm known nuisance and large event flooding areas) as well as establish how the drainage improvements functioned for the different storm events and to win acceptance by the various HOAs. Results from the modeling produced and provided the City with visually simple graphics communicating the complex modeling results and the improvements to the drainage conditions that the proposed channel and storm drain would have on the area. These graphics were presented to the various HOAs and stakeholders and ultimately helped gain their support for the project Entellus also performed the design of the 2 miles of large channel along Pima road, a ½ mile storm drain along Pima and performed upgrades to the outlet channel along Deer Valley Road.</b>		
5)	(1) TITLE AND LOCATION (City and State) <b>Coyote Wash Floodplain Delineation, Yuma County, AZ</b>	(2) Year Completed	
		Professional Services <b>2013-TBD</b>	Construction (if applicable) <b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Engineer. Entellus was retained by Yuma County to perform detailed floodplain delineation for 12 miles of Coyote Wash between the Gila River and the Barry Goldwater Bombing Range. This included determination of the flows, development of floodplain/floodway boundaries, and preparation of FEMA package. Several different analyses were carried out to determine how flow would be affected by the dike and to determine the best way to realistically model flooding potential at and downstream of the dike. Our analysis showed that the dike would not be exposed to more than 3 to 4 feet of head during a 100-year storm; therefore, it was determined that a catastrophic failure was unlikely. This delineation along with Entellus' delineation of Wash A and the Gila River were submitted to FEMA and accepted with only minor comments.</b>		



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

a. NAME  <b>Chris Christiansen</b>	b. ROLE IN THIS CONTRACT  <b>Geographic Information Systems (GIS)</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>13</b>	2. WITH CURRENT FIRM <b>13</b>
d. FIRM NAME AND LOCATION (City and State) <b>Entellus, Inc. 2255 North 44th Street, Suite 125 Phoenix, Arizona 85008</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION)  Bachelor of Science Computer Visualization Technology, ITT, 2003 / Masters of Science Geographic Information Systems, Arizona State University		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)  Certified Geographic Information Systems Professional (GISP) #00061429 GIS Certification Institute	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) American Council of Engineering Companies (ACEC) of Arizona / ACEC Leadership in Engineering Administration Program (LEAP) / Arizona Floodplain Management Association (AFMA) / Field GIS: Collection Data Using ArcPAD (ESRI)			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	<b>East Mesa Area Drainage Master Plan (ADMP) Update, Flood Control District of Maricopa County</b>	<b>2012-2013</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>GIS Specialist.</b> Town of Gilbert needed to complete a major update to their existing Public Works and Engineering Standards and Details by developing an integrated Engineering Design and Construction Standards Manual (Manual). The Manual set forth the minimum requirements for construction of and improvements to public and private streets; water, sewer, and reclaimed water utilities; storm water systems; placement and operation of any other structures within Gilbert rights-of-way and easements, including streetlights and traffic signals; and all excavation and grading within Gilbert.		
2)	<b>Pinal County-Wide ADMP, Pinal County, AZ</b>	<b>2005-2010</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>GIS Specialist.</b> Pinal County retained Entellus for professional engineering services necessary to produced County Wide Area Drainage Master Plans (ADMP) including an Existing Conditions Evaluation. The County was divided into 20 independent watersheds which included areas ranging from undeveloped desert to developed urban areas.		
3)	<b>Eloy Industrial Park On-call, Pinal County, AZ</b>	<b>2013</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>GIS Specialist.</b> The Eloy Industrial Park Analysis was performed for the Pinal County Flood Control District as part of an on-call contract with Pinal County Public Works. This project in the Lower Santa Cruz River Watershed performed several analyses with the primary objective of establishing the existing conditions at the Santa Cruz River & Greene Canal split flow and at the Eloy Industrial Park site.		
4)	<b>Pima Road / Deer Valley Channel Design, City of Scottsdale, AZ</b>	<b>2011</b>	<b>2012</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>GIS Specialist.</b> Entellus was contracted by Scottsdale to perform roadway and drainage improvements along the Pima Road Corridor. The drainage directly affected several homeowners associations and required significant coordination. Entellus updated the existing HEC-1 models to reflect the current conditions as well as to reflect the proposed improvements to the area. The City and the HOAs wanted to be able to definitively see the effects of the improvements on the flood prone area for an array of storms, not just the 100-year event. Entellus generated FLO-2D models for the 2, 5, 10, 25, 50 and 100-year events. The purpose of utilizing the various storm events was to confirm the existing conditions (FLO-2D inundation maps were utilized to confirm known nuisance and large event flooding areas) as well as establish how the drainage improvements functioned for the different storm events and to win acceptance by the various HOAs. Results from the modeling produced and provided the City with visually simple graphics communicating the complex modeling results and the improvements to the drainage conditions that the proposed channel and storm drain would have on the area. These graphics were presented to the various HOAs and stakeholders and ultimately helped gain their support for the project Entellus also performed the design of the 2 miles of large channel along Pima road, a ½ mile storm drain along Pima and performed upgrades to the outlet channel along Deer Valley Road.		
5)	<b>Coyote Wash Floodplain Delineation, Yuma County, AZ</b>	<b>2013-TBD</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>GIS Specialist.</b> Entellus was retained by Yuma County to perform detailed floodplain delineation for 12 miles of Coyote Wash between the Gila River and the Barry Goldwater Bombing Range. This included determination of the flows, development of floodplain/floodway boundaries, and preparation of FEMA package. Several different analyses were carried out to determine how flow would be affected by the dike and to determine the best way to realistically model flooding potential at and downstream of the dike. Our analysis showed that the dike would not be exposed to more than 3 to 4 feet of head during a 100-year storm; therefore, it was determined that a catastrophic failure was unlikely. This delineation along with Entellus' delineation of Wash A and the Gila River were submitted to FEMA and accepted with only minor comments.		



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

a. NAME  <b>Dan Francetic</b>	b. ROLE IN THIS CONTRACT  <b>Surveyor</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>21</b>	2. WITH CURRENT FIRM <b>7</b>
d. FIRM NAME AND LOCATION (City and State) <b>Entellus, Inc. 2255 North 44th Street, Suite 125 Phoenix, Arizona 85008</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION)  Bachelor of Science Surveying, Ohio State University		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)  Arizona #33874 Land Surveyor / New Mexico #18994 Land Surveyor / Nevada #020262 Land Surveyor / Certified Federal Surveyor (CFedS) #1090 / NSPS Certified Survey Technician (CST), #0707-3098	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) American Council of Engineering Companies (ACEC) of Arizona / Arizona Professional Land Surveyors / National Society of Professional Surveyors			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	<b>Railroad Crossing Safety Improvements, City of Phoenix, AZ</b>	<b>2010 - Present</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Surveyor.</b> Entellus was retained by the City of Phoenix to complete the design for improvements to eight (8) UPRR railroad crossings at existing roadway sections. The improvements included pedestrian crossing modifications, curb and gutter, track crossing material, coordination of railroad access requirements, signage and striping, grading and drainage, utility coordination and relocation, and identification of additional rights-of-way and easement requirements.		
2)	<b>Southwest Zone 1 Transmission Main, Indian School Road Corridor, City of Phoenix, AZ</b>	<b>2013</b>	<b>TBD</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Surveyor.</b> The new Southwest Zone 1 transmission mains were identified as part of the Large Transmission Main Assessment Program to provide redundancy in the west portion of the City service area. This project provides redundancy to an existing 48-inch water transmission main located in Indian School Road between 35th Avenue and 99th Avenue. The project required new water transmission mains in two areas: Area 1 - Buckeye Road from 35th Avenue to 67th Avenue and Area 2 - the general area bounded by Camelback Road, Thomas Road, Loop 101 and 67th Avenue.		
3)	<b>Eastmark, City of Mesa , AZ</b>	<b>2011</b>	<b>2012</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Engineer.</b> Entellus was retained by DMB Associates, Inc to design 11 separate parcels containing approximately 775 lots. The parcel designs were completed on a fast-track schedule and customized parcel designs to meet the preferences of the seven builders that purchased the parcels. Parcels included highly amenitized parks that also served as retention basins. Extensive coordination with the landscape architect for both rough and finish grading, was completed. A bleed system, unique to the City of Mesa, was designed for each park.		
4)	<b>La Mesita Apartments, City of Mesa , AZ</b>	<b>2013</b>	<b>2014</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Engineer.</b> This project is located on approximately 1.43 acres east of Roosevelt Road in Downtown Phoenix. The acreage covers lots 6, 7, and 8 of the La Mesita final plat. Current development of the site includes several existing one-story buildings. The proposed project developed several four-story buildings that will contain approximately 80 rental units. Support services and recreation areas are also to be incorporated into the development.		
5)	<b>Pinal County-Wide ADMP, Pinal County, AZ</b>	<b>2005-2010</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Surveyor.</b> Pinal County retained Entellus for professional engineering services necessary to produce County Wide Area Drainage Master Plans (ADMP) including an Existing Conditions Evaluation. The County was divided into 20 independent watersheds which included areas ranging from undeveloped desert to developed urban areas.		



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

a. NAME  <b>Mike Colland</b>	b. ROLE IN THIS CONTRACT  <b>Construction Management</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>16</b>	2. WITH CURRENT FIRM <b>9</b>
d. FIRM NAME AND LOCATION (City and State) <b>Entellus, Inc. 2255 North 44th Street, Suite 125 Phoenix, Arizona 85008</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION)  Bachelor of Science Construction, Arizona State University		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)  "A" General Engineering Arizona Contractor's license ROC 220970 / Certified Professional Constructor CPC #751 with American Institute of Constructors3098	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) American Council of Engineering Companies (ACEC) of Arizona / ACEC Leadership in Engineering / Completed 10 hour OSHA Certification Training / Rule 310 Certification MCAQD			

1)	(1) TITLE AND LOCATION (City and State) <b>Ocotillo Road Improvements Construction Management, City of Chandler, AZ</b>	(2) Year Completed	
		Professional Services <b>2013</b>	Construction (if applicable) <b>2013</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Construction Management.</b> Entellus was retained by the City of Chandler to complete Ocotillo Road Improvements construction management services. This is a federally funded project, using Highway Safety Improvement Program (HSIP) funds, and is currently programmed for construction FY13/14. Entellus assisted with post design services including pre-bid services, submittal review and approval, Request for Information (RFI) tracking, quantity verification and contractor payment verification review, County Approval of Construction, Quality Assurance testing, application of federal standards, review of construction redlines and preparation of as-builts.		
2)	(1) TITLE AND LOCATION (City and State) <b>Camelback Core (Zone 1, 1A, 2A) Water Transmission Improvements, City of Phoenix, AZ</b>	(2) Year Completed	
		Professional Services <b>2007</b>	Construction (if applicable) <b>2010</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Construction Management.</b> Entellus designed and executed the construction administration and inspection for 16,000 feet of waterline and appurtenances ranging in size from 16-inches to 42-inches, installed with careful maintenance of traffic (MOT) in both urban arterials and residential side streets. Entellus also designed and inspected the construction of the associated 33 MGD Booster Pump Station. The finished improvements were commissioned into the City's water distribution system to support future high density developments in the Camelback Core area.		
3)	(1) TITLE AND LOCATION (City and State) <b>Happy Valley Road and I-17 Park-And-Ride, City of Phoenix, AZ</b>	(2) Year Completed	
		Professional Services <b>2010</b>	Construction (if applicable) <b>2011</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Construction Management.</b> Entellus designed and executed the construction administration and inspection for a 7.7 acre facility that could accommodate up to 520 vehicles. The site improvements included: mass grading, an off-site and on-site waterline, on-site sewer improvements, a designated fire line, security building, ADOT freeway ramp, drainage improvements, street and area lighting, CCTV security system, solar capabilities, asphalt paving, steel parking canopies, masonry and cast-in-place walls, decorative art features, signage and striping, and landscaping. The construction procurement was hard bid and Entellus administered the contract throughout the project to protect the City's interests. Our diligence during the administration is displayed in the quality of the finished product and also the low percent of change order value to the total value of the project, which was less than 6.5% per the Engineer's recommendations on justifiable compensation. In today's ultra-competitive market, change order mitigation is crucial.		
4)	(1) TITLE AND LOCATION (City and State) <b>Deem Hills (Zone 5EA) Booster Pump Upgrades, AZ</b>	(2) Year Completed	
		Professional Services <b>2012</b>	Construction (if applicable) <b>2013</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Construction Management.</b> Entellus was retained for the phase II upgrade to the Deem Hills BPS (5EA-B1) to increase capacity, and operational flexibility. Phase II, will increase capacity from 3.7 MGD to 5.8 MGD and include the associated power and Instrumentation upgrades. Energy efficiency measures included: automatic monitor and control system upgrades, pump discharge throttling, high efficiency motors, pump system efficiency optimization, and others.		



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**H. RELEVANT PROJECTS**

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

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

a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
<b>Camelback Core Water Transmission Main, City of Phoenix, AZ</b>	<b>2009</b>	<b>2011</b>

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER <b>City of Phoenix</b>	d. DOLLAR AMOUNT OF PROJECT <b>\$5M</b>	e. TOTAL COST OF PROJECT <b>\$5M</b>
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and length of project)*



A coalition of developers retained Entellus to perform an independent evaluation of water infrastructure improvements for Zones 1, 1A, and 2 within the City of Phoenix. The analysis on this Public-Private-Partnership (P3) project was prompted by the City to verify the scope of local water improvements to support additional commercial development in the Camelback Core corridor. Entellus designed three miles of 20-inch thru 42-inch waterlines and appurtenances. The alignment was developed after evaluating several corridors in the mature neighborhood development in the vicinity of Indian School Road and 24th Street in Phoenix. An extensive

amount of utility coordination was undertaken, including identification of over 100 potholes, in order to document the existing utilities and to develop the best alignment within the selected corridors. This scope of work included assistance with IGA agreements between the Developers and the City, preparation of detailed plans and specifications, construction administration and inspection, and start-up and commissioning services.

The scope of work also included hydraulic analysis, preparation of detailed plans and specifications, construction administration and inspection during the construction phase as well as the start-up and commissioning services necessary to see the project through to its successful completion. Start up was completed with no re-starts. Hydraulics for the 2A-B11 BPS were analyzed for a pre-interim, interim, and build-out scenario as requested by the City resulting in firm pumping capacities of 8 MGD, 16 MGD and 33 MGD, respectively. The station was constructed for the interim scenario of 16 MGD, this consisted of two 4 MGD pumps, and two 8 MGD pumps. Major equipment at the station included: piping, pumps, valves, surge tanks, a flow meter, chlorine analyzer, motor control centers, generator (back-up power), air compressor, telemetry, security gate, sound/perimeter wall, pump starters, relays, automatic transfer switch, switchgear.



***This project received the AZ Water Association Water System Project of the Year in 2012***





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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 (City and State) <b>Pinal County-Wide Area Drainage Master Plan, Pinal County, AZ</b>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES <b>2005-2010</b>	CONSTRUCTION (If applicable) <b>N/A</b>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER <b>Pinal County</b>	d. DOLLAR AMOUNT OF PROJECT <b>\$1,128,000</b>	e. TOTAL COST OF PROJECT <b>\$1,128,000</b>
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g. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)



The Pinal County ADMP encompasses over 5000 square miles in one of the nation's fastest growing counties. The County has a tremendous challenge to identify the potential devastating effects of drainage, manage development in the context of these challenges, and broadly and quickly communicate and regulate that information to development. Entellus used existing and developed new GIS tools to process, organize and analyze the vast amount of drainage data available into a "next generation" GIS based Drainage Master Plan.

The products included identification of drainage-related hazard areas and a compilation of rules of development to deal with those hazards. Digital products were developed for ease of use and developed in formats that

facilitate easy distribution of the data.

The ADMP allows the regular citizen to identify drainage issues affecting their property and gives guidance on how to best deal with those issues. At the same time, the ADMP provides the engineering community with the framework and most of the raw data required for drainage analysis.

The ADMP is a "big picture" tool to help residents understand drainage phenomenon. It is also used for the County to insure that development occurs in a way that does not negatively affect the drainage system, as many of the Sonoran desert drainage systems within the watershed can be very complex such as the Santa Cruz River system.

The ADMP hazard areas identified provide the County a quick and robust way to increase public awareness of drainage issues using a product that is easily distributed for both Pinal County staff and the public to use.



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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>Higley Road Improvements, East Maricopa Floodway (EMF) to 1370' North, Town of Gilbert, AZ</b>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES <b>2009</b>	CONSTRUCTION <i>(If applicable)</i> <b>2009</b>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER <b>Town of Gilbert</b>	d. DOLLAR AMOUNT OF PROJECT <b>\$8.1M</b>	e. TOTAL COST OF PROJECT <b>\$8.1M</b>
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h. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The Town of Gilbert retained Entellus to provide project management and construction management services and coordinate the Design-Build (DB) to assist in negotiations for the DB Guaranteed Maximum Price (GMP) for Higley Road Improvements Project No. ST097. The project included designing Higley Road to a six lane major arterial with a raised median to 1,370' north of the East Maricopa Floodway (EMF) Bridge. Two bridges were widened/modified on this project. One spanned the EMF, the other crossed RWCD's canal.



The improvements consisted of structural additions to bridges, overlaying the bridge decks with asphaltic concrete, and widening of the existing roadways north and south of the bridges. Other project improvements were curb and gutter, sidewalks, street lighting, drainage improvements within the right-of-way, landscaping, utility extensions, and signing and striping.



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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>Eastmark, City of Mesa, AZ</b>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES <b>2011</b>	CONSTRUCTION <i>(If applicable)</i> <b>2012</b>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER <b>DMB Associates</b>	d. DOLLAR AMOUNT OF PROJECT <b>\$750k</b>	e. TOTAL COST OF PROJECT <b>\$750K</b>
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i. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)



Entellus was retained by DMB Associates, Inc to design 11 separate parcels containing approximately 775 lots. The parcel designs were completed on a fast-track schedule and customized parcel designs to meet the preferences of the seven builders that purchased the parcels.

Parcels included highly amenitized parks that also served as retention basins. Extensive coordination with the landscape architect for both rough and finish grading, was completed. A bleed system, unique to the City of Mesa, was designed for each park.

Items of particular interest delivered on this project:

- 210 Acres
- 775 Lots
- 11 Parcels
- 10 Months from kick-off to Recorded Plats
- Complete Civil Design and Approvals
- Parcels Customized for Seven Builder Preferences
- Parks with Multiple Amenities
- Construction completed with virtually no questions or issues with construction plans





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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>Pima Road Improvements, City of Scottsdale, AZ</b>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES <b>2011</b>	CONSTRUCTION <i>(If applicable)</i> <b>2012</b>

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER <b>City of Scottsdale</b>	d. DOLLAR AMOUNT OF PROJECT <b>\$5M</b>	e. TOTAL COST OF PROJECT <b>\$5M</b>
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j. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)



Entellus was retained by DMB Associates, Inc to design 11 separate parcels containing apprAfter years of meetings regarding Pima Road design, there was no solid consensus where the alignment should be. The City of Scottsdale needed to develop an acceptable concept for the realignment of Pima Road. Entellus was retained by the City as design professionals to obtain consensus among the various City departments, local neighborhoods, and landowners for what would ultimately become the ideal design solution.

As a result of specialized coordination efforts, utilization of technology for cost savings, and innovative design concepts, the serenity of a neighborhood was maintained while a major arterial street was realigned.

One of the main objectives of this project was to provide additional benefits to the community while adding the desired transportation infrastructure. These are some of the creative solutions delivered on this project:



- Execute an effective approach with stakeholder coordination for a positive outcome
- Mitigate noise through aesthetic sound walls and extensive buffering treatment that matches the Ironwood Village Landscape Plan
- Provide more equal buffering around all sides of Ironwood Village by shifting Union Hills south
- Preserve two existing Pima Road bridges south of Downing Olson
- Accommodate entry features at Union Hills and Downing Olson
- Minimize right-of-way needed west of realigned Pima Road
- Maintain an attractive scenic corridor along Pima Road
- Construct a new pedestrian bridge



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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.)

**ENTELLUS' TECHNICAL CAPABILITIES**

Entellus has been serving the state of Arizona since 1985. Entellus is a Phoenix-based consulting engineering corporation with a professional staff of 45 engineers, hydrologists, surveyors, inspectors, GIS analysts, CAD and field technicians, and support staff, and has had successful working relationships with many clients in the public and private markets.

Entellus' goal is to provide services that are both cost-effective and timely through intelligent engineering and proactive engineering solutions. To achieve our goal, we offer a high level of reliability, technical excellence, and responsiveness. We are committed to working as a team with our clients to build valued long-term relationships.

Our engineering staff consists of highly specialized professionals who are capable of providing on-call services in the following areas:

**Development Services**  commercial and site development design; residential land development due diligence studies; master planned communities infrastructure services including master plans for water, sewer, and drainage; final design of arterial roadways, utility transmission mains, pump stations, reservoirs, detention basins; construction staking, parks; subdivision improvement plans and final plats; preliminary construction budgets, bidding, utility coordination, and construction management scheduling of subcontractors until final acceptance.

**Transportation**  location and route studies, design concept reports, highway and major and local street design, signing and striping plans, drainage analysis and design, utility infrastructure/relocation, right-of-way analysis and plans, legal descriptions and exhibits, construction management, value engineering, quality/constructability reviews, comprehensive project management, public involvement, agency coordination.

**Water / Wastewater**  water transmission main design, booster pump station design, water system appraisals, water and sewer master plans, sanitary sewer line design, public involvement programs, sewer lift station design, pipeline rehabilitation, agency coordination.

**Water Resources**  area drainage master plans, roadway drainage systems, detention/retention basins, FEMA floodplain delineation studies, scour analysis, water recharge, CLOMR/LOMR, ponding/backwater inundation analysis, drainage manuals, site development grading and drainage, dambreak analysis, channels/drop structures, storm drains/culverts, jurisdictional dam permitting/design GIS facility inventory.

**Field Services (Survey)**  control, boundary, ALTA and topographic surveying, construction staking and asbuilts, constructability/bidability/operability reviews, pre-bid assistance, quality assurance, pre-construction conferences, post-bid assistance, and construction inspection/observation/monitoring. Respond to contractor requests/plans interpretation, administer weekly meetings and distribute minutes, submittal review, and review asbuilt plans for accuracy/completeness.

**Field Services (Construction Administration)**  constructability reviews, construction sequencing plans, equipment yard and staging plans, reviews for plan/drawing accuracy and completeness, and preparation of quality assurance plans, in addition to observation of contractor activities for compliance with specifications and drawings. Other areas of service involve negotiations with contractor claims concerning matters of interpretation of plans and specifications, evaluating contractor claims for partial payment requests, time extensions, delays and other impacts. Project closeout services include final quantity audits, as-builts review and preparation, operation and maintenance manuals, project start-up, and conformance reports to meet client and county and state jurisdictional agency requirements.



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**GIS Services**  mapping, data collection and development, database creation, systems modeling and analysis, Infrastructure design and management, asset inventory, three dimensional graphic presentation, watershed analysis, custom geoprocessing tools, and other applications in existing engineering services areas.

**Airport Services** - studies and design, as well as construction administration of: runway overlays and expansions, new hangar construction, security fencing, access roadways, hangar and site development, taxiways, walkways and air cargo aprons, water and fire suppression systems, terminal remodeling, parking facilities, flood mitigation, drainage studies and master plans, lighting and instrument control system (PAPI).

**Funding Assistance** – Clean Water SRF Technical Assistance Grants and Loans, Drinking Water SRF Technical Assistance Grants & Loans, FTA-Public Transit Investment Grants, Surface Transportation Supplemental Grants, Watershed Rehabilitation Program, Public-Private Partnerships, Improvement Districts, Community Facilities Districts, Special Districts, Grant Writing.

**Value Engineering** - consulting services utilizing the application of Value Engineering (VE) methodology with the goal of improving value enhancing while minimizing costs. VE has a wide range of applications, including business processes, product design/manufacturing and construction projects.

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: William A. Linck

Date: 12/23/14

Name: William A. Linck, PE

Title: Senior Vice President