



**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:	Hoskin Ryan Consultants Inc.
b. FIRM (OR BRANCH OFFICE) STREET:	6245 N. 24 <sup>th</sup> Parkway, Suite 100
c. FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d. FIRM (OR BRANCH OFFICE) STATE:	AZ
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85016

f. YEAR ESTABLISHED:	1995
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(g1). OWNERSHIP - TYPE:	Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	Self-Certified Small Business

h. POINT OF CONTACT NAME AND TITLE:	Paul W.R. Hoskin, PE – Principal
i. POINT OF CONTACT TELEPHONE NUMBER:	602-252-8384
j. POINT OF CONTACT E-MAIL ADDRESS:	paulh@hoskinryan.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
CADD Technician	P	12	
Civil Engineer	P	10	
Hydrologist	S	4	
Hydraulic Engineer	S	1	
Project Manager	P/S	3/7	
Other: Surveying and Administrative	P	12	
<b>Total</b>		<b>37</b>	



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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)
6	Commercial Building ( <i>Low Rise</i> ); Shopping Centers	2
3	Community Facilities	1
15	Construction Surveying	4
2	Hospital and Medical Facilities	1
34	Housing (Residential, Multi-Family; Apartments; Condominiums)	6
8	Highways; Streets; Airfield Paving; Parking Lots	2
8	Infrastructure	3
4	Judicial and Courtroom Facilities	1
16	Land Surveying	2
1	Prisons & Correctional Facilities	1
3	Recreation Facilities (Parks, Marinas, Etc.)	2
2	Rivers; Canals; Waterways; Flood Control	1
5	Storm Water Handling & Facilities	1
8	Surveying; Platting; Mapping; Flood Plain Studies	3
4	Topographic Surveying and Mapping	1
2	Transportation	1
5	Water Resources; Hydrology; Ground Water	1
2	Zoning; Land Use Studies	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 \$25 million |
| 4. \$500,000 to less than \$1 million   | 9. \$25 million to less than \$50 million |
| 5. \$1 million to less than \$2 million | 10. \$50 million or greater               |



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

a. NAME Paul W.R. Hoskin, PE	b. ROLE IN THIS CONTRACT Principal / Hydrology Manager	c. YEARS EXPERIENCE	
		1. TOTAL 33	2. WITH CURRENT FIRM 19
d. FIRM NAME AND LOCATION (City and State) Hoskin Ryan Consultants, Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) BS, Civil Engineering MS, Civil Engineering		f. CURRENT PROFESSIONAL REGISTRATION Professional Civil Engineer Arizona #19690	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) <b>Organizations:</b> AFMA, Valley Forward Board of Directors, Valley Partnership, APWA, ASHE, ACEC, ASCE. <b>Awards:</b> ACEC 2014 Engineering Excellence Honor Award, Arizona Forward Environmental Excellence Merit Award. <b>Areas of Expertise:</b> Hydrologic and Hydraulic modeling software techniques includes the use of TR-20, TR-55, HEC-1, HEC-2, HEC-RAS, HEC-6, StormCAD and Haestad Methods.			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	Wickenburg Area Drainage Master Study Wickenburg, Arizona	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Hoskin was the Project Principal for this project prepared FEMA floodplain delineations for 115-linear-miles of watercourses within the Wickenburg area. Work included survey, geology, geotechnical, environmental, hydrology, hydraulics, (HEC-RAS models and 2-dimensional models) sediment analysis, floodplain delineations, planning studies, and a FEMA submittal. A hydraulic performance review was conducted for three dam structures in the watershed area. Work included preparation for, and attendance at, city council and public meetings, project schedule and performance reviews. This is a study, no construction on this project. Study fee \$2.2M.		
2)	White Tanks FRS No. 3 Outlet Channel – Preliminary and Final Design Buckeye, Arizona	2009	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Hoskin was the Principal/Project Manager for this 5-mile long channel which extends south from FRS No. 3 to FRS No. 4 along Jackrabbit Trail. The project commenced as an Alternatives Evaluation and Preliminary Design, and progressed into Final Design and construction. Alternatives were evaluated in respects to hydrologic and hydraulic effectiveness, utilization of existing facilities and construction and right-of-way costs. Prior to Final Design, different materials were evaluated and a Value Analysis was conducted. This approximate \$18m construction project included cross-drainage structures for nine major streets, 18 concrete grade control structures, and over 8,000 linear feet of 66-inch to 78-inch diameter pipe. The channel is designed to convey the PMF flows from the Principal Spillway plus the 100-year local runoff intercepted by the channel. Mr. Hoskin coordinated all design disciplines including survey, structures, landscape, utilities, geology, and geotechnical engineering. Design fee \$1.8M.		
3)	Fillmore Street Storm Drain Improvements Phoenix, Arizona	2010	2011
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		



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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	
	<p>Mr. Hoskin was the Project Principal and prepared the hydrologic models and design concepts. The Fillmore Street project consisted of a new 36-inch to 66-inch diameter trunk line from 2nd Avenue to 9th Avenue along the Fillmore Street alignment with lateral connectors along 4th and 5th Avenues. The design included the placement of new catch basins throughout the study area in order to prevent flooding from the 10-year rainfall event. Also included was the preparation of a detailed hydraulic model for this urban watershed and submittal of a Technical Memorandum for approval of the concept. Detailed field surveys of the entire area, including the collection of subsurface information, were performed. Final design included the preparation of survey base maps, final design plans for a new storm drain trunk line, catch basins, and utility relocations. Design fee \$430K.</p>			
4)	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed		
	Salt River Crossing at 91st Avenue Alternative Study Phoenix, Arizona	Professional Services	Construction <i>(if applicable)</i>	
		2010	2010	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
<p>Mr. Hoskin was the Project Principal and Drainage Engineer for this feasibility study. Design Alternatives Study and Preliminary Design Plans were prepared for the Salt River Crossing at 91st Avenue. The project entailed the evaluation of a new bridged crossing of the Salt River at 91st Avenue. Historical flood records were used to determine the probability of inundation throughout a typical design life and a cost/benefit analysis. Six design alternatives were developed and analyzed with regard to service level and cost, impact to river hydraulics, existing utilities, and traffic. Historic gage data was used to supplement previous flood flow studies to determine the appropriate flow rates for design. Existing topographic and hydraulic information were input into GIS to create a HEC-RAS model upstream and downstream of the crossing. This project is a study, no construction. Design fee \$95K.</p>				
5)	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed		
	Covance Development Center Chandler, Arizona	Professional Services	Construction <i>(if applicable)</i>	
		2005	2007	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
<p>Under Mr. Hoskin's direction, this project provided civil engineering, landscape, and surveying design services for this 50-acre bio-analytical research laboratory and office facility. Working closely with the Project Architect and the City of Chandler, he obtained all plan approvals within accelerated timelines while meeting City regulations with regards to parking, site drainage, and site utilities. Design fee \$445K.</p>				



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

a. NAME Ryan H. Raab, PE	b. ROLE IN THIS CONTRACT Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 17	2. WITH CURRENT FIRM 10
d. FIRM NAME AND LOCATION <i>(City and State)</i> Hoskin Ryan Consultants, Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS, Civil Engineering		f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Civil Engineer Arizona #42768 New Mexico #18801 Texas #104044	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> <b>Organizations:</b> ASHE, APWA. <b>Areas of Expertise:</b> Utility Design and Coordination, Grading and Drainage Design, Site Design and Planning, Road Design, Land Development, Storm Drain Design, Signing and Striping Design, Plan Checking.			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
1)	East Mesa Subdivision Rehabilitation <i>Mesa, Arizona</i>	2013	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm As the Project Manager, Mr. Raab's responsibilities included managing reports, plan preparation, client coordination, managing schedules and preparing schedules. The project required final scoping reports and plans for 10.7 miles of subdivision roads, many of which date back to the 1960's and 1970's and have received minimal maintenance since constructed. The County's proactive approach to upgrading and repairing streets within their jurisdiction will result in preservation savings in the long term. Not in the construction phase yet. Design fee \$292K.		
2)	Desert Sage Subdivision Rehabilitation <i>Mesa, Arizona</i>	2012	2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Raab was the primary client contact and project manager for the Desert Sage project. This project was performed under the On-Call Maricopa County Department of Transportation (MCDOT) contract to prepare the Final Construction Documents for the Desert Sage Subdivision Rehabilitation project. The existing pavement had deteriorated and repaving efforts had resulted in drainage ponding and non-standard remedies to address driveway access, including blockage of curb flow lines. The improvements consisted of 5.5-miles of full depth milling and removal and replacement of pavement, new concrete valley gutters, and concrete curb repair. The project was fast tracked and Final Documents were produced within forty calendar days from Notice to Proceed. Design fee \$130K.		
3)	SBI-net Program <i>Tucson, Ajo, Nogales and Sonoita, Arizona</i>	2010	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		



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	<p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE</p> <p>Mr. Raab was the Project Manager for the SBInet program and was responsible for all design and construction plan preparation. The SBInet Program along the Arizona border had initially consisted of approximately 170 fixed communication towers and four central control facilities. This project included construction of the 23 existing towers, and the new central control facility. The diversity and remoteness of the sites required a significant level of attention to minimize disturbance to the surrounding native environment while ensuring construction access and future maintenance access was provided. This project supported the program by providing Hydrology Reports, Civil Construction Documents for tower sites and access roads, Storm Water Pollution Prevention Plan, and Preliminary Site Assessment Reports for potential sites in TUS, CAG, NGL, SON and AJO sectors. Reacting quickly to the construction schedule for both the TUS and AJO sectors, Mr. Raab coordinated the necessary construction staking manpower to meet the needs of the construction schedule. Record field measurements were obtained once construction was completed and the As-built Plans were prepared and submitted. This project is on hold. Design/Survey fee \$2.3M.</p>	<p align="right"><input checked="" type="checkbox"/> Check if project performed with current firm</p>		
	<p>(1) TITLE AND LOCATION <i>(City and State)</i> 2nd Avenue Water Main Replacement Phoenix, Arizona</p>	<p align="center">(2) Year Completed</p> <table border="1"> <tr> <td>Professional Services 2014</td> <td>Construction <i>(if applicable)</i></td> </tr> </table>	Professional Services 2014	Construction <i>(if applicable)</i>
Professional Services 2014	Construction <i>(if applicable)</i>			
<p>4)</p>	<p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE</p> <p>Mr. Raab is the Project Manager for this project which is located in the City of Phoenix and encompasses 2nd Avenue from Fillmore Street to Van Buren Street. Hoskin Ryan provided survey, water design, and construction plan preparation to complete a water main replacement for the project. The City requested this fast-track project to be completed in 3 months due to their immediate need for replacement. Project is ongoing. Design fee \$24K.</p>	<p align="right"><input checked="" type="checkbox"/> Check if project performed with current firm</p>		
	<p>(1) TITLE AND LOCATION <i>(City and State)</i> Eastmark Community and Infrastructure Mesa, Arizona</p>	<p align="center">(2) Year Completed</p> <table border="1"> <tr> <td>Professional Services 2012</td> <td>Construction <i>(if applicable)</i> 2013</td> </tr> </table>	Professional Services 2012	Construction <i>(if applicable)</i> 2013
Professional Services 2012	Construction <i>(if applicable)</i> 2013			
<p>5)</p>	<p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE</p> <p>As Project Manager, Mr. Raab led the design staff providing planning, survey and final engineering services for 4.5-miles of infrastructure roadway and 1-mile of drainage channel infrastructure. Relevance: Extensive coordination was required with the City of Mesa, the Flood Control District of Maricopa County and all utility companies. This project included all Civil Engineering design including paving, grading and drainage, water, sewer and storm drain design for the infrastructure roadways associated with the EASTMARK Master Planned Community. EASTMARK is a 4,400-acre community with 700-residential lots and a 10-acre park in the first phase. Infrastructure design plans, including paving, grading and drainage, water, sewer and storm drain design were prepared and approved in ten months for Ellsworth, Ray and Signal Butte Roads to serve Phase 1 of the EASTMARK Master Planned Community. Design fee \$525.</p>	<p align="right"><input checked="" type="checkbox"/> Check if project performed with current firm</p>		



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

a. NAME Peng Zhang, PE, CFM	b. ROLE IN THIS CONTRACT Senior Hydrologist	c. YEARS EXPERIENCE	
		1. TOTAL 13	2. WITH CURRENT FIRM 7
d. FIRM NAME AND LOCATION <i>(City and State)</i> Hoskin Ryan Consultants, Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS, Environmental Science MS, Environmental Engineering MS, Civil and Environmental Engineering		f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Civil Engineer Arizona #51491 California #C75473 Certified Floodplain Manager US-1005107	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> <b>Organizations:</b> AFMA, American Water Works Association, Arizona Water & Pollution Control Association. <b>Areas of Expertise:</b> FLO-2D, HEC-1, HEC-RAS, HEC-GeoRAS, XPSWMM, EPANET, ArcGIS, ArcHydro, StormCAD, MicroStation, Bentley Geopak, GIS.			

**H. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
	Professional Services	Construction <i>(if applicable)</i>
Wickenburg Area Drainage Master Study/Plan <i>Wickenburg, Arizona</i>	2014	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
1) Mr. Zhang was the Project Hydrologist/GIS Analyst for this Area Drainage Master Study/Plan. The project updates the hydrology and revises 115-linear-miles of existing FEMA floodplain delineations within the Town of Wickenburg and surrounding area. Mr. Zhang prepared a digital terrain model from aerial mapping and USGS DEM data using ArcGIS. GIS extensions including ArcHydro and HEC-GeoRAS were employed to convert terrain information into hydrological and hydraulic parameters. To provide inputs for FLO-2D model, Mr. Zhang digitized drainage features within the study area, these features including blocking walls, buildings and land use zonings. Mr. Zhang is also involved in GIS map and exhibit preparation and geo-database management. This is a study, no construction on this project. Study fee \$2.2M.		
White Tanks FRS No. 3 Outfall Channel – Preliminary and Final Design <i>Buckeye, Arizona</i>	2009	2013
(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) Mr. Zhang served as the Project Engineer for this project. This project consisted of a 5-mile long channel which extends south from FRS No. 3 to FRS No. 4 along Jackrabbit Trail. This approximate \$18 million construction cost project includes bridge structures for nine major streets, 18 concrete grade control structures, and over 8,000- linear-feet of 66-inch to 78-inch diameter pipe. Alternatives were evaluated in respects to hydrologic and hydraulic effectiveness, utilization of existing facilities and construction and right-of-way costs. Hydrology was performed using HEC-1, NOAA 14 and future conditions to identify design discharges. Hydraulic analysis was performed to design stepped spillways, energy dissipaters, grade control structures, open channel and storm drains. Design fee \$1.8M.		
Fillmore Street Storm Drain Improvements <i>Phoenix, Arizona</i>	2010	2011
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		
3)		





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	<p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE</p> <p>Mr. Zhang provided hydrologic analysis for the watershed and hydraulic modeling for trunk line and catch basins on this project. The Fillmore Storm Drain project consisted of a new 36-inch to 66-inch diameter trunk line from 2nd Avenue to 9th Avenue along the Fillmore Street alignment, with lateral connectors along 4th and 5th Avenues. The design included the placement of new catch basins throughout the study area in order to prevent flooding from the 10-year rainfall event. Also included was the preparation of a detailed hydraulic model for this urban watershed and submittal of a technical memorandum for approval of the concept. Detailed field surveys of the entire area, including the collection of subsurface information, were also performed. Final design included the preparation of survey base maps, final design plans for a new storm drain trunk line, catch basins, and utility relocations. Design fee \$430K.</p>	<input checked="" type="checkbox"/> Check if project performed with current firm		
4)	<p>(1) TITLE AND LOCATION <i>(City and State)</i>  <b>Clarendon and 22nd Street Storm Drain          Maricopa, Arizona</b></p> <p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE</p> <p>Mr. Zhang was the Project Hydrologist and conducted the drainage analysis for alternatives and final design. Final construction documents were prepared for storm drain to address local drainage issues within this neighborhood. This followed a detailed alternatives analysis to determine the best outfall. Design included storm drain mains on Osborn Road from 20th Street to 22nd Street and along 22nd Street from Osborn to Indian School. The alignment faces numerous utility conflicts including a 60-inch water main in 20th Street. Design fee \$75K</p>	<p>(2) Year Completed</p> <table border="1"> <tr> <td>Professional Services 2014</td> <td>Construction <i>(if applicable)</i> 2014</td> </tr> </table> <input checked="" type="checkbox"/> Check if project performed with current firm	Professional Services 2014	Construction <i>(if applicable)</i> 2014
Professional Services 2014	Construction <i>(if applicable)</i> 2014			
5)	<p>(1) TITLE AND LOCATION <i>(City and State)</i>  <b>91st Avenue – Salt River Crossing          Phoenix, Arizona</b></p> <p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE</p> <p>As Senior Hydrologist on this project, Mr. Zhang investigated the long-term degradation and scour potential along Salt River, conducted the hydrologic and hydraulic analysis, and evaluated the cost-benefit of alternatives. This project entailed the evaluation of a new bridged crossing of the Salt River at 91st Avenue. Six design alternatives were developed and analyzed with regard to service level and cost, impact to river hydraulics, existing utilities, and traffic. Existing topographic and hydraulic information were input into GIS to create a HEC-RAS model upstream and downstream of the crossing. Design fee \$95K.</p>	<p>(2) Year Completed</p> <table border="1"> <tr> <td>Professional Services 2008</td> <td>Construction <i>(if applicable)</i> 2010</td> </tr> </table> <input checked="" type="checkbox"/> Check if project performed with current firm	Professional Services 2008	Construction <i>(if applicable)</i> 2010
Professional Services 2008	Construction <i>(if applicable)</i> 2010			



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a. NAME Matthew J. Mancini, PE	b. ROLE IN THIS CONTRACT Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 12	2. WITH CURRENT FIRM 10
d. FIRM NAME AND LOCATION <i>(City and State)</i> Hoskin Ryan Consultants, Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS, Civil Engineering		f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Civil Engineer Arizona #45652 Nevada #019921	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> <b>Organizations:</b> HBACA, Valley Partnership, Pinal Partnership, Arizona Forward. <b>Areas of Expertise:</b> Grading & Drainage Design, Sewer & Water Design, Paving Design, Storm Drain Design, Signing & Striping Design, Roadway Design, Utility Coordination, Land Development, Site Planning.			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
1)	Northwest Courthouse Grading and Drainage Rehabilitation <i>Surprise, Arizona</i>	2012	2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm As part of the Maricopa County Facilities Management On-Call, Project Manager, Mr. Mancini was responsible for drainage assessment and rehabilitation for the existing Northwest Courthouse facility. The existing building was constructed on top of pillar footings creating drainage infiltration below the building causing damage to interior walls, floors, and overall structural integrity. Topographical survey, drainage assessment, and recommended grading alternative analysis services were provided to alleviate the site from additional drainage impact. Design work included parking lot drainage design, and open space and storm drain design. All work was completed within a two month expedited schedule in order to repair the site as quickly as possible. Design fee \$27K		
2)	MCDOT Highway Operations Building <i>Phoenix, AZ</i>	2012	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm The Highway Operations Service Building for the Maricopa County Department of Transportation (MCDOT) was created in conjunction with Deutsch Architecture Group. This project consisted of design and construction of a new Operations Building and included parking lot retrofit into an existing parking lot. The project required civil engineering design and topographic surveying services. As Project Manager, Mr. Mancini was in charge of project/design implementation, oversaw design & administrative staff, coordinated directly with owner and contractor. Construction Documents included paving, grading, water/fire, storm drain, geometric control, and Storm Water Management Plans. All plans were completed within the projected 4 month timeframe, design and construction was completed without the need for civil engineering change orders. Design fee \$30K.		
3)	Estrella Jail – Drywall and Storm Drain Upgrades <i>Phoenix, Arizona</i>	2013	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		



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	<p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE</p> <p>In order to remediate contaminated ground, and storm water back-up at the Estrella Women's Correctional Facility, Hoskin Ryan provided design and construction administrative services to the Maricopa County Facilities Management Department. As Project Manager, Mr. Mancini was in charge of project/design implementation, oversaw design &amp; administrative staff, coordinated directly with owner and contractor. The Hoskin Ryan team re-routed storm drain and sewer lines, designed a new grease interceptor, and remediated a contaminated drywell. As part of the construction, Hoskin Ryan was responsible for on-site inspection, and coordination with the Contractor and Owner through RFIs, shop drawing review, and processing of pay-applications. All work was expedited (design and construction) in order to maintain proper correctional facility operations. Design fee \$30K.</p>	<p align="right"><input checked="" type="checkbox"/> Check if project performed with current firm</p>				
	<p>(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix Tennis Center <i>Phoenix, Arizona</i></p>	<table border="1"> <tr> <th colspan="2" data-bbox="967 527 1550 558">(2) Year Completed</th> </tr> <tr> <td data-bbox="967 558 1252 625">Professional Services 2013</td> <td data-bbox="1252 558 1550 625">Construction <i>(if applicable)</i> 2014</td> </tr> </table>	(2) Year Completed		Professional Services 2013	Construction <i>(if applicable)</i> 2014
(2) Year Completed						
Professional Services 2013	Construction <i>(if applicable)</i> 2014					
4)	<p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE</p> <p>As the Project Manager on this City of Phoenix On-Call project, Mr. Mancini provided final civil engineering and post-engineering design for 22 full-courts and one half-court. The project required professional engineering and landscape design services for the Phoenix Tennis Center located within the Washington Park at the Northwest corner of 21st Avenue and Citrus Way. These courts were designed in the 1960s, so the surfaces were cracked, windscreens needed replacement and lighting did not meet tournament court standards. A phased approach was proposed to renovate these facilities. Working with subconsultants, Hoskin Ryan provided engineering, landscape design, field survey, geotechnical, and electrical lighting services for this popular facility. Renovations are currently progress. A future phase will include removal of the parking area to the south and replacement with a new entrance at the west, and four new “under-lights” courts. Design fee \$100K.</p>	<p align="right"><input checked="" type="checkbox"/> Check if project performed with current firm</p>				
	<p>(1) TITLE AND LOCATION <i>(City and State)</i> Manzanita Park - 31<sup>st</sup> Avenue and Roeser <i>Phoenix, Arizona</i></p>	<table border="1"> <tr> <th colspan="2" data-bbox="967 932 1550 984">(2) Year Completed</th> </tr> <tr> <td data-bbox="967 984 1252 1075">Professional Services 2009</td> <td data-bbox="1252 984 1550 1075">Construction <i>(if applicable)</i> 2010</td> </tr> </table>	(2) Year Completed		Professional Services 2009	Construction <i>(if applicable)</i> 2010
(2) Year Completed						
Professional Services 2009	Construction <i>(if applicable)</i> 2010					
5)	<p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE</p> <p>As the Project Manager, Mr. Mancini provided design services for this 40-acre municipal park within the City of Phoenix. Working directly with the Project Landscape Architect, Mr. Mancini assisted in parking lot layout, performed parking lot grading and drainage design and was responsible for overall project QA/QC. In addition, to parking lot and sport's field design, this project required the design of on-site utility services to restroom and drinking facilities as well as the design of a 150 cfs channel that traversed through the southern portion of the site. Project team coordination was heavily relied upon for this project's success in developing a sustainable site for the public to enjoy. Design fee \$50K</p>	<p align="right"><input checked="" type="checkbox"/> Check if project performed with current firm</p>				



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

a. NAME Thomas E. Granillo, PE, RLS, CFM	b. ROLE IN THIS CONTRACT Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 27	2. WITH CURRENT FIRM 2
d. FIRM NAME AND LOCATION <i>(City and State)</i> Hoskin Ryan Consultants, Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BA, Civil Engineering		f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Civil Engineer Arizona #22190 Arizona RLS #55545 Certified Floodplain Manager US-13-07341	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> <b>Organizations:</b> APWA, Valley Partnership. <b>Areas of Expertise:</b> Hydrology/Hydraulics, Drainage Planning & Design Roadway, Storm Drain & Utility Design Surveying/Mapping Construction Staking/Inspection. HEC-1, HEC-RAS, DDMS, AutoCAD, TDS Survey Software			

**H. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
	Professional Services	Construction <i>(if applicable)</i>
2nd Avenue Water Main Replacement <i>Phoenix, Arizona</i>	2014	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
1) As Project Engineer, Mr. Granillo provided design for 1,400-linear-feet water main replacement along 2nd Avenue from Fillmore Street to Van Buren Street in the City of Phoenix. The project was a rehabilitation of an existing 6" water main with a new 12-inch water main in order to resolve older deteriorating lines and enhancement of reliable service to this historical part of the City. Numerous underground obstructions were avoided from exhaustive research of As-built plans and reconciliation of found surface utility evidence. The best possible water main location considered avoiding conflicts, providing water meter and fire line service re-connections, and developing strategies to inter-connect other surrounding mains. Replacement projects require the new water main to be designed so the existing system can remain in service during construction. This project is ongoing. Design fee \$24K.		
City of Phoenix Tennis Courts <i>Phoenix, Arizona</i>	2013	2014
(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) Mr. Granillo was the Survey Manager and Design Engineer on this project. He was responsible for boundary and topographic survey, storm drain analysis and grading and draining design for the entire complex. Phoenix Tennis Center located within the Washington Park at the northwest corner of 21st Avenue and Citrus Way. The existing tennis facilities consist of 22 full-courts and one half-court. These courts were designed in the 1960s, so the surfaces are cracked, windscreens need replacement and lighting does not meet today's standards. A phased approach is proposed to renovate these facilities and to replace the 1-1/2 courts with four new courts. Design fee \$100K.		
3) Pima Freeway (17th Drive to 56th Street) <i>Scottsdale, Arizona</i>	1993	1997
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		



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3)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <span style="float: right;"><input type="checkbox"/> Check if project performed with current firm</span>	
	<p>Mr. Granillo was the Project Engineer for a \$2.2 million, offsite drainage system that protects the Pima Freeway Corridor. Two independent drainage systems were designed to collect offsite flows from impacting the roadway section east of 7th Avenue and 7th Street. Project involvement included detailed design and capacity calculations of 15 offsite drop inlets (flow range up to 50cfs), 6 roadside catch basins (flow range up to 100 cfs), and over 2 kilometers of storm drain collection main. The storm drain included multiple cell box culverts in shallow cover conditions and in a limited right-of-way corridor; and, circular conduit in a steep profile. Final Plans included several detail sheets for grading and detailing of numerous structures. Design fee \$250K.</p>	
4)	(1) TITLE AND LOCATION <i>(City and State)</i> Clarendon and 22nd Street Storm Drain <i>Phoenix, Arizona</i>	(2) Year Completed
	Professional Services 2013	Construction <i>(if applicable)</i> 2014
5)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span>	
	<p>Mr. Granillo served as the Project Engineer and helped to prepare final construction documents for storm drain to address local drainage issues within the project's neighborhood. This followed a detailed alternatives analysis to determine the best outfall. Design will include storm drain mains on Osborn Road from 20th Street to 22nd Street and along 22nd Street from Osborn to Indian School. The alignment faces numerous utility conflicts including a 60-inch water main in 20th Street. Design fee \$75K.</p>	
5)	(1) TITLE AND LOCATION <i>(City and State)</i> Rio Salado Parkway (College to Farmer) <i>Tempe, Arizona</i>	(2) Year Completed
	Professional Services Unknown	Construction <i>(if applicable)</i> 1999
5)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <span style="float: right;"><input type="checkbox"/> Check if project performed with current firm</span>	
	<p>Mr. Granillo was the Project Engineer for this \$7.5 million urban roadway section which included curb, gutter and center-median; the project included storm drain main, 72-inch water main relocation, 12-inch trunk main sewer, 12-inch water main, parcel services, and under-grounding of three (3)-69kV circuits. Design included pass thru drainage box-culverts from Tempe Buttes to the Salt River avoiding co-mingling of off-site and on-site flows. Construction fee \$7.5M.</p>	



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

a. NAME Michael A. Banta, RLS	b. ROLE IN THIS CONTRACT Survey Manager	c. YEARS EXPERIENCE	
		1. TOTAL 25	2. WITH CURRENT FIRM 1
d. FIRM NAME AND LOCATION (City and State) Hoskin Ryan Consultants, Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) BS, Forestry and Wildlife		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Professional Land Surveyor Arizona #38175	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) <b>Organizations:</b> APLS, Valley Partnership. <b>Areas of Expertise:</b> GPS Surveys, ALTA Surveys, Cadastral Surveys, Subdivision Plats, Maps of Dedication, Results of Survey, Topographic Surveys, Route Location Surveys, Boundary Surveys, Surveys Right-Of-Way Acquisition, Legal Description, Strip Maps, Construction Surveying, Aerial Mapping			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	2nd Avenue Water Main Replacement Phoenix, Arizona	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm As the Survey Manager, Mr. Banta's team provided detailed topographic cross sections for the roadways, right-of-way determination, and field location of the existing improvements along with visible signs of underground utilities that would affect the design. Once the survey effort was completed, the existing conditions were reflected on the constraints base plan and a construction set of drawings. Survey, water design, and construction plan preparation was provided to complete a water main replacement for the project. The project is located in the City of Phoenix and encompasses 2nd Avenue from Fillmore Street to Van Buren Street. The City requested this fast-track project to be completed in 3 months due to their immediate need for replacement. This project is ongoing. Design/Survey fee \$24K.		
2)	City of Goodyear Airport Goodyear, AZ	2012	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Banta served as the Quality Control Reviewer for the Lux Air project. His role involved milestone reviews of the Parcel Descriptions provided for the Lease Parcels, the review of the Record of Survey prepared, review of meeting Arizona Minimum Boundary Standards, meetings with the Aviation Department for review of the work performed and with the Airport Manager for a final measure of completeness and obtaining the desired lease areas agreed upon by all parties. Construction not applicable. Survey fee \$24K.		
3)	EASTMARK Infrastructure Mesa, Arizona	2012	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		



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3)	<p>BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE</p> <p>Infrastructure design plans, including paving, grading and drainage, water, sewer and storm drain design were prepared for three phases of the EASTMARK project. Phase 1 included planning, survey and final engineering for 4.5-miles of arterial and collector roadways, including Ellsworth Road, Ray Road, and Signal Butte Road and 1-mile of drainage channel with an outfall to the Powerline Floodway. Phase 2 included 2.5-miles of Eastmark Parkway, Point Twenty-Two Blvd. and Everton Terrace. Phase 3 includes 2-miles of Ellsworth Road and Point Twenty-Two Blvd. for the future Grand Canyon University Campus. As Survey Manager, Mr. Banta and his team of surveyors collected topographic survey information, property and right-of-way for the alignment and prepared Maps of Dedication and Final Plats for the Eastmark Project. Design fee \$525K.</p>	<p align="right"><input checked="" type="checkbox"/> Check if project performed with current firm</p>		
	<p>(1) TITLE AND LOCATION (<i>City and State</i>)</p> <p>Stage-1 PHX Sky Train Phoenix, Arizona</p>	<p align="center">(2) Year Completed</p> <table border="1"> <tr> <td>Professional Services 2010</td> <td>Construction (<i>if applicable</i>) 2013</td> </tr> </table>	Professional Services 2010	Construction ( <i>if applicable</i> ) 2013
Professional Services 2010	Construction ( <i>if applicable</i> ) 2013			
4)	<p>BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE</p> <p>As the Survey Manager, Mr. Banta delivered the topographic survey and completed the construction staking survey for the Maintenance &amp; Storage Facility (MSF) for the \$180 million PHX Sky Train located at the east end of the airport. He led the survey efforts for the assessment of the owner supplied guideway structure and construction staking for the wayside civil infrastructure improvements. Utilizing digital levels and Robotic Total Station survey instruments, the team successfully completed the project with high precision to meet the strict tolerances established by the owner. The project was completed on time and under budget. Survey fee \$1M.</p>	<p align="right"><input type="checkbox"/> Check if project performed with current firm</p>		
5)	<p>(1) TITLE AND LOCATION (<i>City and State</i>)</p> <p>Phoenix Convention Center Expansion Phoenix, Arizona</p> <p>BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE</p> <p>Mr. Banta served as the Quality Control Reviewer for the Lux Air project. His role involved milestone reviews of the Parcel Descriptions provided for the Lease Parcels, the review of the Record of Survey prepared, review of meeting Arizona Minimum Boundary Standards, meetings with the Aviation Department for review of the work performed and with the Airport Manager for a final measure of completeness and obtaining the desired lease areas agreed upon by all parties. Construction fee \$600M.</p>	<p align="center">(2) Year Completed</p> <table border="1"> <tr> <td>Professional Services 2003</td> <td>Construction (<i>if applicable</i>) 2008</td> </tr> </table> <p align="right"><input type="checkbox"/> Check if project performed with current firm</p>	Professional Services 2003	Construction ( <i>if applicable</i> ) 2008
Professional Services 2003	Construction ( <i>if applicable</i> ) 2008			



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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. YEAR COMPLETED	
SBlNet Virtual Fence Roadway Site Improvements Tucson, Ajo, Nogales, and Sonoita, Arizona	PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Department of Homeland Security/Boeing	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$2,300,000 (design)	e. TOTAL COST OF PROJECT \$2,300,000 (design)
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The SBlNet Program along the Arizona border had initially consisted of approximately 170 fixed communication towers and four central control facilities. Hoskin Ryan was involved with the construction of the 23 existing towers, and the new central control facility. The diversity and remoteness of the sites required a significant level of attention to minimize disturbance to the surrounding native environment while ensuring construction access and future maintenance access was provided. Hoskin Ryan provided the necessary field work to prepare topographic surveys for the proposed tower compounds and the access roads to the compounds. We also supported the program by providing Hydrology Reports, Civil Construction Documents for tower sites and access roads, Storm Water Pollution Prevention Plan, and Preliminary Site Assessment Reports for potential sites in TUS, CAG, NGL, SON and AJO sectors. Reacting quickly to the construction schedule for both the TUS and AJO sectors, Hoskin Ryan provided the necessary construction staking manpower to meet the needs of the construction schedule. Record field measurements were obtained once construction was completed and the As-built Plans were prepared and submitted. This project is currently on hold.

Relevancy

- ✓ Hydrology / Ground Water
- ✓ Storm Water
- ✓ Land Surveying
- ✓ Topographic Surveying
- ✓ Construction Services
- ✓ Civil Infrastructure
- ✓ Fast Paced Schedule
- ✓ Multiple Agencies, Reviews & Coordination







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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> White Tanks FRS No. 3 Outfall Channel – Preliminary Design, Final Design and Construction Wickenburg, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2009	CONSTRUCTION <i>(If applicable)</i> 2013

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER Flood Control District of Maricopa County	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$1,800,000 (design)	e. TOTAL COST OF PROJECT \$2,200,000 (design) Client initiated
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The White Tanks FRS No. 3 Outfall channel project commenced as an On-Call alternatives investigation, which led into preliminary and final design, and ultimately into construction. The channel extends approximately five miles along Jackrabbit Trail from the I-10 freeway to the Principal Spillway of FRS No. 3. The earthen channel features bridge structures at nine major roadways and 18 grade control structures. The channel and structures integrated aesthetic design elements, including landscaping, stepped spillways, formliners, gravel mulch, and landscaped mounding. Hoskin Ryan was selected to identify the most cost effective alternatives to carry outflow from the dam, intercept Local Drainage, and mitigate existing floodplains. Six alternatives were evaluated in respect to Hydrologic and Hydraulic effectiveness, utilization of existing facilities, and construction and ROW costs. Hydrology and Hydraulics was performed using HEC-1 and HEC-1 respectively. The recommended alternative was developed into 30% Design Plans which identified all major design features including existing structures and utility conflicts. The survey group performed the initial Topographic Survey, Construction Staking, As-Built, and Coordination with the Contractor.

**Relevancy**

- ✓ Hydrology and Hydraulics
- ✓ Channel Design
- ✓ Structures
- ✓ Earthwork
- ✓ Roadway Design
- ✓ Waterline Design
- ✓ FEMACoordination
- ✓ Public Involvement

*Award Winning Project (ACEC 2014 Engineering Excellence Honor Award, Arizona Forward Environmental Excellence, Merit Award)*





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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) MCDOT Highway Operations Building Phoenix, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable) 2013

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Maricopa County Facilities Management	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$30,000 (design)	e. TOTAL COST OF PROJECT \$30,000 (design)
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Hoskin Ryan worked in conjunction with Deutsch Architecture Group on this new Highway Operations Service Building for the Maricopa County Department of Transportation. The project consisted of the design and construction of a new Operations Building including parking lot retrofit into an existing parking lot.

Hoskin Ryan was responsible for civil engineering design and topographic surveying services for this project. Construction Documents included paving, grading, water/fire, storm drain, geometric control, and Storm Water Management Plans. All plans were completed within the projected 4 month timeframe, and design and construction was completed within the need for civil engineering change orders.

Relevancy

- ✓ Design / Planning Facilities
- ✓ Site Development
- ✓ Storm Water Management
- ✓ Grading and Drainage
- ✓ Land Surveying
- ✓ Parking lots
- ✓ Utility
- ✓ Fast Paced Schedule





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

a. TITLE AND LOCATION (City and State) City of Phoenix Tennis Center Phoenix, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2014

23. PROJECT OWNER'S INFORMATION

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

Hoskin Ryan provided professional engineering and landscape design services for the Phoenix Tennis Center located within the Washington Park at the Northwest corner of 21st Avenue and Citrus Way. The existing tennis facilities consist of 22 full-courts and one half-court. These courts were designed in the 1960s, so the surfaces were cracked, windscreens needed replacement and lighting did not meet tournament court standards. A phased approach was proposed to renovate these facilities. Working with subconsultants, Hoskin Ryan provided engineering, landscape design, field survey, geotechnical, and electrical lighting services for this popular facility. Renovations are currently progress. A future phase will include removal of the parking area to the south and replacement with a new entrance at the west, and four new “under-lights” courts.

Relevancy

- ✓ Civil Design and Planning
- ✓ Field Survey
- ✓ Grading and Paving
- ✓ Boundary Survey
- ✓ Topographic Surveying
- ✓ Geometric Control
- ✓ Water Pressure Evaluation





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

a. TITLE AND LOCATION (City and State) East Mesa Subdivision Rehabilitation Mesa, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Maricopa County Department of Transportation	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$292,000 (design)	e. TOTAL COST OF PROJECT \$292,000 (design)
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The East Mesa Subdivision Rehabilitation scoping design report was prepared under a MCDOT On-Call contract. Hoskin Ryan prepared the scoping reports and plans for 10.7-miles of subdivision roads, many of which date back to the 1960's and 1970's and have received minimal maintenance since constructed. Through research, field visits, analysis, and utilization of MCDOT's new Project Development Manual, we are developing the best approach to deliver the best project. The County's proactive approach to upgrading and repairing streets within their jurisdiction will result in preservation savings in the long term. Not in construction phase yet.

Relevancy

- ✓ Transportation
- ✓ Civil Infrastructure
- ✓ Hydrology
- ✓ Storm Water
- ✓ Streets, Paving
- ✓ Land Surveying
- ✓ Topographic Surveying





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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.)

## About Hoskin Ryan Consultants, Inc

**Hoskin Ryan Consultants, Inc.** (Hoskin Ryan) is pleased to have the opportunity to submit a Statement of Qualifications for the Annual Professional Services Contract to the State of Arizona Department of Administration State Procurement Office. We hope to be included on the pre-qualified consultant list so we can build a lasting relationship with the different State Agencies through timely completion, quality engineering, and creative solutions. Please feel free to contact us with any questions.

Hoskin Ryan is locally owned and operated in Phoenix. Our firm has been in business for over 19 years and has over 40 personnel performing our core services; civil engineering, hydrology and land surveying. We also provide land development, land planning, and construction services throughout the State of Arizona.

Our team has extensive engineering knowledge derived from working on a wide range of projects in both the public and private sectors. This knowledge has allowed us to create an efficient approach in every stage of the project process, developing a company culture that is focused on creativity, efficiency, and timely execution.

### Civil Engineering Group

The Civil Engineering Group provides design for *roadway, water, sewer, grading and drainage, storm drainage and utility relocations and utility coordination*. Work products include Preliminary and Final Design Documents, specifications, bid tabulations and cost estimates. Design projects include full and half-streets, regional roadways in difficult terrain, *site grading, water system modeling, water and sewer infrastructure, and construction observation* services. This group uses Microstation, AutoCAD, and GIS capabilities. Design software includes InRoads, GeoPak, Civil3D, StormCAD, WaterCAD, and SewerCAD.

### Hydrology Group

The Hydrology Group provides *hydrologic and hydraulic analysis, floodplain modeling, storm drainage and flood control* design. They provide solutions to small local flooding problems and large Area Drainage Master Studies/Plans. They provide sedimentation and erosion analysis, detention basin design, FEMA CLOMR/LOMR processing, US Army Corps of Engineers 404 Permit compliance, NPDES, and SWPPPs. Hydrologic/Hydraulic modeling software includes HEC-1, HEC-RAS (steady and un-steady), Flo-2D (for two-dimensional flow analysis), SWMM, HEC-6, StormCAD, Haestad Methods, Arc/Info GIS, and Geo-RAS.

### Land Surveying / Construction

The Survey Group provides a range of survey services including *boundary and topographic surveys, ALTA's, right-of-way review, legal descriptions, construction staking, as-built* measurements and plan preparation. Three survey crews work under the guidance and direction of our Registered Professional Land Surveyor. Software used in the office includes AutoCAD, Carlson, SurvCAD, Trimble, Geomatics, 3D Studio Max, Civil3D. Trimble R8 GPS and Leica robotics instruments are used to collect field data for conversion in the office.

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ATTACHMENT I – General Qualifications

ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:  
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STATE PROCUREMENT OFFICE  
Department of Administration  
100 North 15<sup>th</sup> Avenue, Suite 201  
Phoenix, Arizona 85007

6. ADDITIONAL INFORMATION

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

References

<p>Paul Driver, PE Maricopa County Department of Transportation Project Management and Construction Division Manager 2901 W Durango St., Phoenix, Arizona 85009 <a href="mailto:pauldriver@mail.maricopa.gov">pauldriver@mail.maricopa.gov</a> (602) 506-4618</p>	<p>Shannon Francoeur DMB Associates Inc. Director of Development-Eastmark 7600 E. Doubletree Ranch Rd., Suite 300, Scottsdale, AZ 85258 <a href="mailto:sfrancoeur@dmbinc.com">sfrancoeur@dmbinc.com</a> (480) 367-7360</p>
<p>Tricia Brown, PE Maricopa County Department of Transportation Project Management Branch Manager 2901 W Durango St, Phoenix, AZ 85009 <a href="mailto:patriciabrown@mail.maricopa.gov">patriciabrown@mail.maricopa.gov</a> (602) 506-0896</p>	<p>Gary Wesch, PE Flood Control District of Maricopa County Project Manager 2801 W Durango St., Phoenix, AZ 85009 <a href="mailto:garywesch@mail.maricopa.gov">garywesch@mail.maricopa.gov</a> (602) 506-4592</p>
<p>Leah Hanwell Maricopa County Facilities Management Job Order Manager 401 W. Jefferson, Phoenix AZ 85007 <a href="mailto:Leah.Hanwell@FM.maricopa.gov">Leah.Hanwell@FM.maricopa.gov</a> (602) 372-4495</p>	<p>Greg Jones Flood Control District of Maricopa County Project Manager 2801 W Durango St Phoenix, AZ 85009 <a href="mailto:glj@mail.maricopa.gov">glj@mail.maricopa.gov</a> (602) 506-5537</p>



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**Phoenix, Arizona 85007**

**6. ADDITIONAL INFORMATION**

**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> EASTMARK Master Plan Community, Roadway, Community Center, Basis Mesa School Mesa, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i>

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER DMB Mesa Proving Grounds, LLC	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$1,569,500 (design)	e. TOTAL COST OF PROJECT \$1,569,500 (design)
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Hoskin Ryan was responsible for all civil engineering design including paving, grading and drainage, water, sewer and storm drain design for the infrastructure roadways associated with the EASTMARK Master Planned Community. The EASTMARK project is 6+ miles, 3200 acre community of infrastructure for close to 1,000 lots and a 10-acre park in the first phase. The Hoskin Ryan team has provided planning, survey and final engineering services for 4.5-miles of arterial infrastructure roadway and 1-mile of drainage channel infrastructure. Extensive coordination has been required with the City of Mesa, the Flood Control District of Maricopa County and all utility companies. Phase II included another 1,000 lots, an expanded Great Park and 2.5 miles of infrastructure. Infrastructure design plans, including paving, grading and drainage, water, sewer and storm drain design were prepared and approved in ten months Phase I of the EASTMARK Master Planned Community. Work included planning, survey and final engineering for 4.5-miles of arterial and collector roadways and 1-mile of drainage channel with an outfall to the Powerline Floodway. Ellsworth Road and Signal Butte Road involved matching existing half street improvements while improving the intersections to their ultimate configuration. Infrastructure improvements of Ray Road were designed through 2-miles of native desert to complete the backbone roadway network. This project is ongoing and on budget.

For the Community Center, Hoskin Ryan provided field survey, preliminary design, final engineering and construction administration services for this 1.7-acre Community Center project. Working closely with the project architect and the City of Mesa, Hoskin Ryan's design team met City regulations with regards to parking, site drainage and site utilities. This project was completed under an expedited schedule while still finding time for value engineering cost savings. *Fees totaled \$19,500 for Community Center.*

BASIS Mesa is the most recent, nationally acclaimed BASIS School to open in Arizona. Hoskin Ryan provided civil engineering design, survey and construction services for this 4-acre school site located within the EASTMARK community. The project started in early 2013 and the school had to be completed in time for its opening in August 2013. Site plans, paving plans, utility plans and grading and drainage plans were prepared. Design and construction schedule was one of the most challenging parts of this project, but we completed the design quickly and on-time with very minimal construction adjustments. *Fees totaled for in \$35,000 for Basis School.*

**Relevancy**

- ✓ Housing; Residential
- ✓ Master Planning, Design
- ✓ Streets, Paving, Parking lots
- ✓ Transportation
- ✓ Civil Infrastructure
- ✓ Hydrology
- ✓ Water Resources, Storm Water
- ✓ Community Facilities
- ✓ Recreation Facilities
- ✓ Land Surveying
- ✓ Topographic Surveying
- ✓ Zoning, Land Use Studies
- ✓ Accelerated Schedules Fulfilled





**ATTACHMENT I – General Qualifications**  
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**Phoenix, Arizona 85007**

**6. ADDITIONAL INFORMATION**

**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> Estrella Jail - Drywell & Storm Drain Upgrades Phoenix, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i> 2013

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER Maricopa County Department of Transportation	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$30,000 (design)	e. TOTAL COST OF PROJECT \$30,000 (design)
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

In order to remediate contaminated ground, and storm water back-up at the Estrella Women's Correctional Facility, Hoskin Ryan provided design and construction administrative services to the Maricopa County Facilities Management Department. As part of an On-Call Consulting Contract, the Hoskin Ryan Design Team re-routed storm drain and sewer lines, designed a new grease interceptor, and remediated a contaminated drywell. As part of the construction, Hoskin Ryan was responsible for on-site inspection, and coordination with the Contractor and Owner through RFIs, shop drawing review, and processing of pay-applications. All work was expedited (design and construction) in order to maintain proper correctional facility operations.

**Relevancy**

- ✓ Storm Water
- ✓ Drain Design
- ✓ Construction Administration
- ✓ Plumbing Code Compliance
- ✓ Drywell Design
- ✓ Storm Water
- ✓ Land Surveying
- ✓ Facility







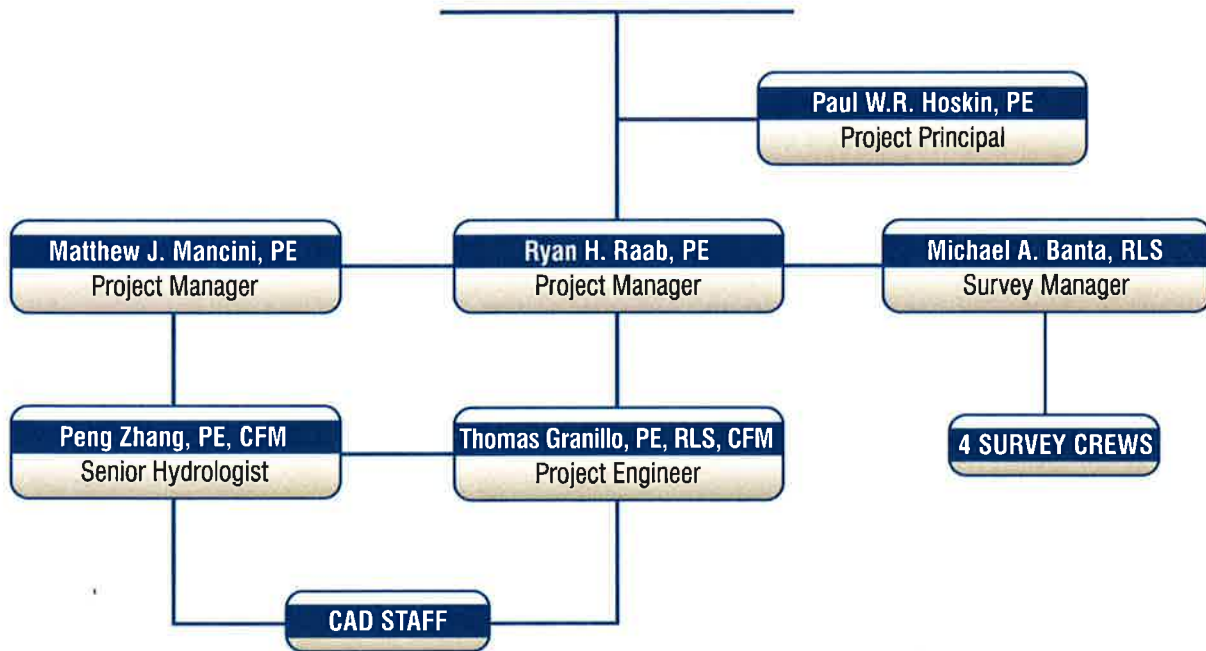
ATTACHMENT I – General Qualifications

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**Organizational Chart**

 **ADOA-SPO**  
State Procurement Office



**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:	25%
b. Percentage of Total Work Attributable to Non-Government Work:	75%


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

Signature: \_\_\_\_\_

Date: 12/23/14

Name: Paul Hoskin, PE

Title: Principal

	<b>Solicitation Amendment 2</b>		State of Arizona State Procurement Office 100 N. 15 <sup>TH</sup> Avenue, Suite 201 Phoenix, AZ 85007
	Solicitation No.: ADSPO15-00004729	Page 1 of 1	
	Description: 2015 Annual Professional Services List		
Amendment No.: 2			


Pursuant to the Uniform Instructions to Offerors, Item 2.6, Solicitation Amendments, the above referenced solicitation shall be amended as follows:

- Notice of Request for Qualifications, Page 1 of 29, Due Date and Time** is replaced with the following:

**Due Date and Time:** Offers shall be received until 3:00 p.m. (Arizona Time), Tuesday, December 30, 2014.

**ALL OTHER INSTRUCTIONS, REQUIREMENTS, SPECIFICATIONS, TERMS AND CONDITIONS REMAIN UNCHANGED**

**ACKNOWLEDGEMENT OF SOLICITATION AMENDMENT SHALL BE DONE ELECTRONICALLY PRIOR TO OFFER DUE DATE AND TIME.** All other all terms, conditions, specifications and amendments to the Solicitation remain unchanged.

	<b>Solicitation Amendment 1</b>		State of Arizona State Procurement Office 100 N. 15 <sup>TH</sup> Avenue, Suite 201 Phoenix, AZ 85007
	Solicitation No.: ADSP015-00004729	Page 1 of 1	
	Description: 2015 Annual Professional Services List		
Amendment No.: 1			

Pursuant to the Uniform Instructions to Offerors, Item 2.6, Solicitation Amendments, the above referenced solicitation shall be amended as follows:

1. The following attachments are hereby modified as follows:
  - a) **Attachment II – Firms Qualifications – Disciplines Form** is deleted and replaced with the following:  
**REVISED Attachment II – Firms Qualifications – Disciplines Form**
2. Pre-Offer Sign In Sheet attached for reference purposes only.
3. Due Date and Time remain the same: Tuesday, December 23, 2014 at 3:00 p.m. (Arizona Time)

**ACKNOWLEDGEMENT OF SOLICITATION AMENDMENT SHALL BE DONE ELECTRONICALLY PRIOR TO OFFER DUE DATE AND TIME.** All other all terms, conditions, specifications and amendments to the Solicitation remain unchanged.