



ATTACHMENT 1 - GENERAL QUALIFICATIONS

1. ANNUAL REQUEST FOR QUALIFICATIONS

a. FIRM (OR BRANCH OFFICE) NAME:	Horrocks Engineers, Inc.
b. FIRM (OR BRANCH OFFICE) STREET:	2162 West Grove Parkway, Suite 400
c. FIRM (OR BRANCH OFFICE) CITY:	Pleasant Grove
d. FIRM (OR BRANCH OFFICE) STATE:	Utah
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	84062

f. YEAR ESTABLISHED:	1968
-----------------------------	------

(g1). OWNERSHIP - TYPE:	Corporation
(g2). OWNERSHIP - SMALL BUSINESS STATUS:	NA

h. POINT OF CONTACT NAME AND TITLE:	Bobby Lall, PE; Principal
i. POINT OF CONTACT TELEPHONE NUMBER:	623-203-7643
j. POINT OF CONTACT E-MAIL ADDRESS:	BobbyL@horrocks.com

k. NAME OF FIRM (If block 1a is a branch office):	NA
--	----



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	26	NA
Civil Engineer	P	61	NA
Construction Manager	P	1	NA
Construction Inspector	P	16	NA
Environmental Engineer	P	3	NA
Environmental Scientist	P	3	NA
Geodetic Surveyor	P	21	NA
Geographic Information System Specialist	P	2	NA
Landscape Architect	P	4	NA
Project Manager	P	6	NA
Structural Engineer	P	9	NA
Transportation Engineer	P	45	NA
Water Resources Engineer	P	6	NA
Other	P	94	NA
Total		297	



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)
91	Traffic and Transportation Engineering	8
7	Structural Design; Special Structures	5
18	Construction Management	6
31	Surveying; Platting; Mapping; Flood Plain Studies	3
9	Environmental Impact Studies, Assessments or Statements	5
4	Water Supply; Treatment and Distribution	2

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than \$100,000
2. \$100,000 to less than \$250,000
3. \$250,000 to less than \$500,000
4. \$500,000 to less than \$1 million
5. \$1 million to less than \$2 million
6. \$2 million to less than \$5 million
7. \$5 million to less than \$10 million
8. \$10 million to less than \$25 million
9. \$25 million to less than \$50 million
10. \$50 million or greater



4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

a. NAME BOBBY LALL, PE	b. ROLE IN THIS CONTRACT Project Manager/Resident Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 15	2. WITH CURRENT FIRM 2.5
d. LOCATION (City and State) Surprise, Arizona			
e. EDUCATION (Degree and Specialization) M.B.A. University of Phoenix B.S. Civil Engineering, Walla Walla College		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona PE No. 42747	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) NA			

H. RELEVANT PROJECTS

H. RELEVANT PROJECTS			
1.	(1) TITLE AND LOCATION (City and State) Sunset Point Rest Area, I-17 Black Canyon City, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	Served as the Resident Engineer for drilling and equipping a new water well, the installation of new utility lines from the well to the existing pump house and storage tank, and other electrical and water system improvements. In addition, the project includes the repair of five ramada roofs at the southern end of the rest area as well as concrete rehabilitation, crack injection, and striping. The work is part of a statewide rest area rehabilitation program that will occur over the next several years. ADOT plans to spend \$17.4 million to repair and refurbish 16 rest areas across the state, improving the waste and water systems. Horrocks has been actively involved in a number of these projects.		
2.	(1) TITLE AND LOCATION (City and State) SR 89AS, Fain Road Widening Yavapai County, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	Served as the Resident Engineer for constructing a two-lane northbound roadway parallel to the existing Fain Road to provide a four-lane divided roadway. This \$16.3 million project included: <ul style="list-style-type: none"> • Construct two northbound travel lanes between MP 326.2 and 331.7 • Extend two RCBCs and ten CMPs • Construct bridges for new northbound travel lanes at Lynx Creek, Agua Fria River, Lakeshore Drive, and Coyote Wash • Remove existing game fence extending from R/W line to existing bridge and replace with new game fences at Lynx Creek, the Agua Fria River, and Coyote Wash • Reconstruct intersection at Sara Jane Lane • Remove or extend existing and/or install new PVC conduits, as needed, to provide for potential future traffic signal installation • Reconstruct northbound on and off ramps at Lakeshore Drive • Mill and replace pavement on the existing two-lane roadway 		
3.	(1) TITLE AND LOCATION (City and State) SR 303L Freeway Loop; Grand to Happy Valley Parkway Surprise and Peoria, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	Bobby is serving as the Principal-in-Charge for this project, in which Horrocks is the prime designer for this \$30 million construction project. It widens the existing two lanes into three lanes in each direction and changes the structural section from asphaltic concrete to P.C.C.P. The project is scheduled to be completed in 2015.		



2015 ANNUAL PROFESSIONAL SERVICES LIST

NO: ADSP015-00004729

4.	(1) TITLE AND LOCATION (City and State) Luke Air Force Base; F35 Academic Training Center Glendale, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Principal-in-Charge for the construction of a 145,195 square feet multi-story sprinkler equipped facility located on the Luke Air Force Base in Glendale, Arizona. Work includes, but not limited to, layout with centerlines and offsets of utilities, demolition, new buildings and civil site improvements by a RLS. Layout of sawcut lines, staging areas, road limits, staking rough grade and benchmarks, retention tanks, waterlines at 50 foot intervals, blue tops, layout of grids for concrete pavement and ATC building and utility building control lines and create as-builts.		
5.	(1) TITLE AND LOCATION (City and State) US 60 Chip Seal Project, MP 225-236.3 Between Superior and Miami, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2011
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Bobby served as the Acting Resident Engineer for this \$784K project consisting of a double application chip seal project that encompassed steep grades, numerous curves, and an abundant of mine truck traffic hauling heavy loads throughout the project duration.		



a. NAME JAY VAN ECHO, PE	b. ROLE IN THIS CONTRACT Project Manager/ Quality Assurance	c. YEARS EXPERIENCE	
		1. TOTAL 32	2. WITH CURRENT FIRM 1
d. LOCATION (City and State) Tucson, Arizona			
e. EDUCATION (Degree and Specialization) B.S. Civil Engineering, University of Arizona B.S. Renewable Natural Resources, University of Arizona		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona PE No. 20959	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) American Society of Professional Engineers Arizona Consulting Engineers Association Engineer WTS Arizona Planning Association			

H. RELEVANT PROJECTS

H. RELEVANT PROJECTS			
1.	(1) TITLE AND LOCATION (City and State) SR 303L Freeway Loop; Grand to Happy Valley Parkway Surprise and Peoria, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	Jay is serving as the Design Quality Assurance Manager for this project, in which Horrocks is the prime designer for this \$30 million construction project. It widens the existing two lanes into three lanes in each direction and changes the structural section from asphaltic concrete to P.C.C.P. The project is scheduled to be completed in 2015.		
2.	(1) TITLE AND LOCATION (City and State) Kino Parkway Overpass at 22nd Street Intersection Improvements Tucson, Arizona	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
	While with another firm, Jay served as the Project Principal and Quality Officer responsible for the technical design and quality assurance of this \$20 million arterial intersection project. The team provided survey, planning, environmental, and civil engineering design to determine the most efficient and economical solution to improve the safety and increase capacity of this area. The team was responsible for the preparation of final construction documents for the Kino Parkway Overpass at 22nd Street intersection design. Improvements included the widening of 22nd Street to three lanes in each direction with sidewalks, pedestrian facilities, far-side bus pullouts, traffic signals, drainage improvements, street lighting, utility modifications, and a new bridge structure on Kino Parkway. To facilitate the improvements, coordination with the City of Tucson on right-of-way and the preparation of right-of-way plans were also included. The project is currently under construction with a scheduled 2015 completion.		
3.	(1) TITLE AND LOCATION (City and State) Magee Road/Cortaro Road, Thornydale to Oracle Tucson, Arizona	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
	While at his previous firm, Jay served as Project Principal and Quality Officer for this \$32 million Pima County Department of Transportation/Regional Transportation Authority project in which Pima County contracted to prepare a Design Concept Report (DCR), Environmental Documents, and Stage II (30%) plans for the portion of the corridor between Thornydale Road and Oracle Road. Included in this portion of the work was a preliminary design of a reconfigured Magee/La Cholla Intersection, the corridor west to Thornydale, and the corridor east to La Canada. The results of the DCR, environmental documents, and Stage II plans were used for right-of-way acquisition and to apply for an individual 404 permit for the corridor. While right-of-way was acquired and the permit processed, the team completed Stage V (100%) plans, specifications, and estimate for the corridor for the project. The project was completed on-time and budget in 2013 with no delays or contract modifications.		



4.	(1) TITLE AND LOCATION (City and State) Houghton Road Widening – Old Vail Road/Mary Ann Cleveland Intersection to Just South of the Existing UPRR Bridge Tucson, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
	<p>Project civil engineering subconsultant project administrator to widen Houghton Road from a two-lane roadway to a six-lane facility. The team completed the design concept report identifying the recommended alternative for the proposed improvements. The proposed improvements include demolishing and replacing the existing deficient UPRR bridge, new retaining walls, new drainage improvements (reinforced box culverts, pipes, and catch basins), concrete sidewalks, curb, curb access ramps, signing, pavement marking, and utility relocations. The COT DOT is reviewing the proposal to continue engineering design activities for the preparation of final construction documents.</p>		
5.	(1) TITLE AND LOCATION (City and State) South 6th Avenue, I-10 to Ajo Way Tucson, Arizona	(2) YEAR COMPLETED	
		Professional Services 1998	Construction (if applicable) 1999
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
	<p>Jay served as Project Manager during design, and Project Principal during construction activities for the reconstruction of the COT's South 6th Avenue from I-10 to Ajo Way. The team prepared construction plans, specifications, and estimate (PS&E) construction documents for the full reconstruction of approximately one mile of South Sixth Avenue from I-10 to Ajo Way. They coordinated the survey and ROW effort, roadway drainage design, landscape design, public participation, roadway lighting, and traffic signal aspects of this project. The team also coordinated efforts between other agencies and design consultants on adjacent projects including ADOT, Pima County, Bureau of Reclamation, Department of Veteran Affairs, Tucson Water, Pima County Wastewater, and US West fiber optic cables. Design elements included widening the existing roadway bridge at the Julian Wash; drainage design for pavement and offsite flow, roadway geometrics, utility coordination and relocations, and intersection improvements at 44th Street, Veterans Boulevard, and Ajo Way. This project was awarded the 1999 APWA/Southern Arizona Branch "Outstanding Large Project Award" for construction.</p>		



a. NAME JOHN MCKELLAR, PE	b. ROLE IN THIS CONTRACT General Civil Engineering	c. YEARS EXPERIENCE	
		1. TOTAL 25	2. WITH CURRENT FIRM 3
d. LOCATION (City and State) Phoenix, Arizona			
e. EDUCATION (Degree and Specialization) M.S. Civil Engineering, Arizona State University		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona PE No. 22893	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) American Society of Civil Engineers American Public Works Association			

H. RELEVANT PROJECTS			
1.	(1) TITLE AND LOCATION (City and State) Valley Club Multi Family (Elan Desert Ridge; Deer Valley 344) Phoenix, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
Project Engineer for the infrastructure design for multi-family residential development on 56th Street, north of Deer Valley Drive. Project included site grading and drainage according to City of Phoenix and Flood Control District of Maricopa County Standards for this 24-acre site area, including 1,000 linear feet of retaining wall layouts. The water system network analysis needed to satisfy both maximum daily demand and fire flow requirements and the design of 4,590 linear feet of 4- and 6-inch distribution mains and 7,770 linear feet of 4-, 6-, and 8-inch fire lines. Project included all civil engineering design and civil project management. The original construction cost is estimated at \$3 million. The project is scheduled to be completed in 2016.			
2.	(1) TITLE AND LOCATION (City and State) Canyon Views Subdivision Buckeye, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
Project Engineer for the preliminary infrastructure design for residential development in Buckeye, Arizona, at the northwest corner of 195th Avenue and Missouri Avenue. Project includes about 280 acres of site grading and drainage design, including over eight miles of collector and local streets. The project includes a water system network analysis to satisfy both maximum daily demand and fire flow requirements and the design of 51,900 linear feet of 8- and 12-inch distribution mains and a 4632 linear feet 24-inch transmission main. Project included all civil engineering design and civil project management. The original construction cost is estimated at \$29 million. The project is scheduled to be completed in 2016.			
3.	(1) TITLE AND LOCATION (City and State) Calliandra Estates Gilbert, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
Project Engineer for the infrastructure design for residential development in Gilbert, Arizona, on Riggs Road. The project included a grading, drainage, storm water management for 57 acres, water system network analysis, and design of 11,200 linear feet of 8-inch distribution mains, and about 2.3 miles of local streets. Project included all civil engineering design and civil project management. The original construction cost is estimated at \$6 million. The project is scheduled to be completed in 2015.			



2015 ANNUAL PROFESSIONAL SERVICES LIST

NO: ADSP015-00004729

	(1) TITLE AND LOCATION (City and State) 56th Street from Dixileta Drive to Montgomery Road at Montevista Phoenix, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
4.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	John served as the Drainage Engineer for this project located next to the Montevista single family residential community in Phoenix, Arizona. Horrocks provided roadway design services for half a mile of arterial street widening improvements, including two concrete box culverts and a storm drainage system. Both an off-site HEC-1 and an on-site Rational Method hydrological analysis were also completed. Hydraulic calculations for the catch basins, storm drains, and culvert system were completed. Careful roadway grading and storm drainage design allowed off-site drainage design flows to pass through this roadway and be conveyed through the Montevista development. The project required stakeholder coordination with both Toll Brothers and the City of Phoenix.		
	(1) TITLE AND LOCATION (City and State) Glendale Avenue to Northern Avenue, 15th Avenue to 7th Avenue Phoenix, Arizona	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable) 2012
5.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
	Project Manager for the design of over 3.1 miles of 3-, 6-, and 8-inch restrained joint, ductile iron water mains, 23 fire hydrants, and 256 water service connections in right-of-way.		



2015 ANNUAL PROFESSIONAL SERVICES LIST
NO: ADSP015-00004729

a. NAME RICH HOPPE, PE	b. ROLE IN THIS CONTRACT General Civil Engineering	c. YEARS EXPERIENCE	
		1. TOTAL 20	2. WITH CURRENT FIRM 3
d. LOCATION (City and State) Phoenix, Arizona			
e. EDUCATION (Degree and Specialization) B.S. Civil Engineering, Arizona State University		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona PE No. 14393 Arizona PLS No. 16551	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) American Society of Civil Engineers (ASCE) National Society of Professional Engineers			

H. RELEVANT PROJECTS			
1.	(1) TITLE AND LOCATION (City and State) Calliandra Estates Gilbert, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
Project Manager for the infrastructure design for residential development in Gilbert, Arizona, on Riggs Road. The project included grading, drainage, storm water management for 57 acres, water system network analysis, and design of 11,200 linear feet of 8-inch distribution mains, and about 2.3 miles of local streets. Project included all civil engineering design and civil project management. The original construction cost is estimated at \$6 million. The project is scheduled to be completed in 2015.			
2.	(1) TITLE AND LOCATION (City and State) Canyon Views Subdivision Buckeye, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
Project Manager for the preliminary infrastructure design for residential development in Buckeye, Arizona, at the northwest corner of 195th Avenue and Missouri Avenue. Project includes about 280 acres of site grading and drainage design, including over eight miles of collector and local streets. The project includes a water system network analysis to satisfy both maximum daily demand and fire flow requirements and the design of 51,900 linear feet of 8-inch and 12-inch distribution mains and a 4632 linear feet 24-inch transmission main. Project included all civil engineering design and civil project management. The original construction cost is estimated at \$29 million. The project is scheduled to be completed in 2016.			
3.	(1) TITLE AND LOCATION (City and State) Johnson Ranch 53 Pinal County, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
As part of the development of Johnson Ranch 53 Residential Development, Horrocks provided roadway design services for a quarter-mile of arterial street widening improvements along Magma Road, including utility and storm drain design. This project also called for the design of sewer and water extensions to existing utility infrastructure, drainage report preparation and design of offsite runoff flow management, and channel and culvert hydraulics. Project management included coordinating and collaborating with private clients, Pinal County, the State of Arizona, and landscape architects. Rich served as the Project Manager. Construction will be completed in 2016.			



2015 ANNUAL PROFESSIONAL SERVICES LIST

NO: ADSP015-00004729

	(1) TITLE AND LOCATION (City and State) 56th Street from Dixileta Drive to Montgomery Road at Montevista Phoenix, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
4.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Rich served as the Project Manager for this project located next to the Montevista single family residential community in Phoenix, Arizona. Horrocks provided roadway design services for half a mile of arterial street widening improvements, including two concrete box culverts and a storm drainage system. Both an off-site HEC-1 and an on-site Rational Method hydrological analysis were completed. Hydraulic calculations for the catch basins, storm drains, and culvert system were also completed. Careful roadway grading and storm drainage design allowed off-site drainage design flows to pass through this roadway and be conveyed through the Montevista development. The project required stakeholder coordination with both Toll Brothers and the City of Phoenix.	<input checked="" type="checkbox"/> Check if project performed with current firm	
	(1) TITLE AND LOCATION (City and State) The Promontory at Foothills West Subdivision Phoenix, Arizona	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
5.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for the hillside development for 110 residential homes with utility, road infrastructure development, water and sewer modeling, HEC-RAS drainage modeling, hillside design, and quality control. Construction will be completed in 2016.	<input checked="" type="checkbox"/> Check if project performed with current firm	



a. NAME MATT HORROCKS, PE	b. ROLE IN THIS CONTRACT Roadway and Drainage Engineering	c. YEARS EXPERIENCE	
		1. TOTAL 12	2. WITH CURRENT FIRM 12
d. LOCATION (City and State) Phoenix, Arizona			
e. EDUCATION (Degree and Specialization) M.S. Civil Engineering, Utah State University		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona PE No. 54936	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) NA			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	SR 303L Freeway Loop; Grand to Happy Valley Parkway Surprise and Peoria, Arizona	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	Matt is serving as the Design Manager for this project, in which Horrocks is the prime designer for this \$30 million construction project. It widens the existing two lanes into three lanes in each direction and changes the structural section from asphaltic concrete to P.C.C.P. The project is scheduled to be completed in 2015.		
2.	I-15 West Mesquite Interchange Mesquite, Nevada	2011	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	As part of the W.W. Clyde team, Horrocks provided structures design, roadway design, maintenance of traffic, traffic improvements, survey, and storm drainage. This project is NDOT's first ABC bridge move, which utilized multiple ABC strategies for two bridges allowing I-15 to remain open through construction. The project includes a new roundabout interchange, replacement of two bridges, roadway realignment, and replacement of more than 500 feet of existing pavement. Matt served as the Deputy Design Manager/Roadway Design Lead.		
3.	I-80; State Street to 1300 East Salt Lake County, Utah	2009	2009
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	A major reconstruction and widening of I-80 in Salt Lake City, the project included concrete pavement, bridges, retaining walls, noise walls, lighting, signing, and drainage. Unique features included numerous bridge moves to minimize impacts to traffic and the use of a moveable barrier to accommodate changing traffic needs through the work zone. Matt was the Roadway Design Lead for this \$110 million project.		



4.	(1) TITLE AND LOCATION (City and State) Vineyard Connector Utah County, Utah	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
<p>This first phase of the proposed urban arterial roadway plays a vital role in the redevelopment of the former Geneva Steel plant and surrounding areas in Utah County, Utah. This portion of Vineyard Connector is just over one mile, extending from Geneva Road and 800 N in Orem through the former Geneva Steel plant and over the existing railroad lines, tying into Vineyard Main Street. In order to allow for more economical future phasing, Horrocks designed the two-lane roadway to be placed in the south half of the right-of-way to accommodate future widening to the north (for a five-lane cross section). Horrocks performed a preliminary design for the ultimate build-out to ensure risks for future phases were properly mitigated at this stage of the project. Horrocks' design services included right-of-way, SUE, roadway, structures, signals, and utility and railroad coordination. Matt served as the Design Manager of this \$13 million project. The project is scheduled to be completed in 2015.</p>			
5.	(1) TITLE AND LOCATION (City and State) Mountain View Corridor Salt Lake County, Utah	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable) 2011
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
<p>Horrocks provided roadway, drainage, and structural design for a 15-mile segment of a new 40-mile highway, frontage road, and trail system in western Salt Lake County, serving eight municipalities through the 15-mile section and 13 cities upon completion of the fully functional freeway. Design efforts include MOT phasing, traffic analysis, new alignment roadway, Kennecott bike/ped trail, hydraulic, hydrologic, and stormwater improvement, pedestrian amenities, and traffic signal elements. Matt served as the Segment 1 Design Manager for this \$450 million project.</p>			



a. NAME DOUGLAS MCCANTS, PE	b. ROLE IN THIS CONTRACT Traffic Engineering/Project Management	c. YEARS EXPERIENCE	
		1. TOTAL 26	2. WITH CURRENT FIRM <1
d. LOCATION (City and State) Phoenix, Arizona			
e. EDUCATION (Degree and Specialization) M.S. Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona PE No. 22204	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Professional Traffic Operations Engineer (PTOE) Professional Transportation Planner (PTP)			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
1.	Honeycutt and Porter Roads Widening Design Maricopa, Arizona	Professional Services 2013	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Manager for the preparation of plans, specifications, end engineer's estimate (PS&E) for the widening of one-quarter mile of Porter Road and one mile of Honeycutt Road.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
2.	Elliot/Val Vista Intersection Safety Audit Gilbert, Arizona	Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Manager of a multidiscipline team for the assessment of safety concerns of a very busy intersection. Final report included recommendations for reducing the number of crashes.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
3.	Traffic Policies and Procedures Development Maricopa County, Arizona	Professional Services 2011	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Manager for the development of policies and procedures for: (1) Multipath Crossings of County Roadways, and (2) 15-MPH School Zones for County Roadways.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
4.	Work Zone and Special Event Traffic Control Manual Maricopa County, Arizona	Professional Services 2011	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Authored MCDOT's first traffic control manual which included specific County requirements for construction work zones and special events.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
5.	Safe Routes to School Maricopa, Arizona	Professional Services 2009	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project manager for the initial engineering evaluations of six schools and development of a comprehensive framework for the City's inaugural Safe Routes to School program.		



2015 ANNUAL PROFESSIONAL SERVICES LIST

NO: ADSP015-00004729

a. NAME PIM VAN DER GIESSEN, PE	b. ROLE IN THIS CONTRACT Utilities, Water, and Wastewater Infrastructure Design	c. YEARS EXPERIENCE	
		1. TOTAL 19	2. WITH CURRENT FIRM 1.5
d. LOCATION (City and State) Phoenix, Arizona			
e. EDUCATION (Degree and Specialization) B.S. Civil Engineering, California Polytechnic State University		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona PE No. 35931	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Association of Professional Engineers and Geoscientists of Alberta Urban Development Institute, Alberta			

H. RELEVANT PROJECTS			
1.	(1) TITLE AND LOCATION (City and State) Johnson Ranch 53 Pinal County, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
As part of the development of Johnson Ranch 53 Residential Development, Horrocks provided roadway design services for a quarter-mile of arterial street widening improvements along Magma Road, including utility and storm drain design. This project also called for the design of sewer and water extensions to existing utility infrastructure, drainage report preparation, and design of offsite runoff flow management, and channel and culvert hydraulics. Project management included coordinating and collaborating with private clients, Pinal County, the State of Arizona, and landscape architects. Pim served as the Project Engineer. This project will be constructed in 2015-2016.			
2.	(1) TITLE AND LOCATION (City and State) The Promontory at Foothills West Subdivision Phoenix, Arizona	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
Project Engineer for the hillside development for 110 residential homes with utility, road infrastructure development, water and sewer modeling, HEC-RAS drainage modelling, hillside design, and quality control. Construction will be completed in 2016.			
3.	(1) TITLE AND LOCATION (City and State) Calliandra Estates Gilbert, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
Project Manager and Project Engineer for the infrastructure design for residential development in Gilbert, Arizona, on Riggs Road. The project included a grading, drainage, storm water management for 57 acres, water system network analysis, and design of 11,200 linear feet of 8-inch distribution mains, and about 2.3 miles of local streets. Project included all civil engineering design and civil project management. The original construction cost is estimated at \$6 million. The project is scheduled to be completed in 2015.			



2015 ANNUAL PROFESSIONAL SERVICES LIST

NO: ADSP015-00004729

	(1) TITLE AND LOCATION (City and State) Canyon Views Subdivision Buckeye, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
4.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer and Project Coordinator for the preliminary infrastructure design for residential development in Buckeye, Arizona, at the northwest corner of 195th Avenue and Missouri Avenue. Project includes about 280 acres of site grading and drainage design, including over eight miles of collector and local streets. The project includes a water system network analysis to satisfy both maximum daily demand and fire flow requirements and the design of 51,900 linear feet of 8-inch and 12-inch distribution mains and a 4632 linear feet 24-inch transmission main. Project included all civil engineering design and civil project management. The original construction cost is estimated at \$29 million. The project is schedule to be completed in 2016.	<input checked="" type="checkbox"/> Check if project performed with current firm	
	(1) TITLE AND LOCATION (City and State) Caliche Senior Living and Villas Plus by Mary T of Arizona Senior Housing Apartments Case Grande, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
5.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As part of the Senior Living and Senior Housing development, Horrocks provided roadway design services for a quarter mile of arterial street widening improvements along Peart Road, including striping and signing, utility, and storm drain design. Design of sewer and water extensions to existing utility infrastructure, drainage report preparation and design of offsite runoff flow management, and channel and culvert hydraulics. Project management included coordination and collaboration with private client, City of Casa Grande, architects, and landscape architect. Pim served as the Project Manager. This project will be constructed in 2015.	<input checked="" type="checkbox"/> Check if project performed with current firm	



a. NAME BRIAN JONES, PE	b. ROLE IN THIS CONTRACT Roadway Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 7	2. WITH CURRENT FIRM 7
d. LOCATION (City and State) Phoenix, Arizona			
e. EDUCATION (Degree and Specialization) B.S. Civil Engineering, Brigham Young University		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona PE No. 58901	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) NA			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) SR 303L Freeway Loop; Grand to Happy Valley Parkway Surprise and Peoria, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	Brian is performing Roadway Design for this project, in which Horrocks is the prime designer for this \$30 million construction project. It widens the existing two lanes into three lanes in each direction and changes the structural section from asphaltic concrete to P.C.C.P. The project is scheduled to be completed in 2015.		
2.	(1) TITLE AND LOCATION (City and State) SR 108 Reconsturction Ogden, Utah	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	Design for widening SR-108; 4300 South to Hinckley Drive, from three lanes to five lanes. The project required acquiring over 50 parcels of ROW to allow for the widening, reconstruction, shoulders, curb and gutter, and sidewalk. In addition to ROW purchases, there are dozens of temporary construction easements and permits, as well a Permanent Utility Easement. Brian provided roadway design. The construction will be completed in 2015.		
3.	(1) TITLE AND LOCATION (City and State) 1300 West, 11080 South to 11750 South Widening South Jordan, Utah	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable) 2011
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	Brian performed roadway design for this project which designed one mile with a 5-lane facility; subsurface utility engineering; coordinated with utility companies; resolved conflicts before construction; designed box culvert; surveying; and prepared right-of-way instruments. Total project cost was \$2.2 million.		
4.	(1) TITLE AND LOCATION (City and State) 7200 West; 3500 South to SR 201 West Valley City, Utah	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	Designed 1.5 miles of roadway widening and improvements. Included replacement box culvert at Riter Canal; drainage improvements; preparation of right-of-way instruments; subsurface utility locating; utility coordination; surveying; storm water lift station; new signal design; and lighting. Brian assisted in roadway design for this \$2.8 million project.		



	(1) TITLE AND LOCATION (<i>City and State</i>) SR 9; 300 West to 800 North Hurricane, Utah	(2) YEAR COMPLETED	
		Professional Services 2008	Construction (if applicable) 2009
5.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Provided roadway design for project, which included 1.5 miles with a 5-lane facility; subsurface utility engineering; coordinated with utility companies; resolved conflicts before construction; designed retaining walls; surveying; and prepared right-of-way instruments. Total project cost was \$10.1 million.	<input checked="" type="checkbox"/> Check if project performed with current firm	



a. NAME JEFF VAN SKIKE, PE	b. ROLE IN THIS CONTRACT Pavement Management/ Design Manager	c. YEARS EXPERIENCE	
		1. TOTAL 26	2. WITH CURRENT FIRM <1
d. LOCATION (City and State) Phoenix, Arizona			
e. EDUCATION (Degree and Specialization) B.S. Civil Engineering, Arizona State University		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona PE No. 18168	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) NA			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
1.	Remodel Traffic Operations Field Office Phoenix, Arizona	Professional Services 2010	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
Remodel of City Archives warehouse into Field Operations Office for Traffic Operations Division; installed elevator, windows, garage doors, offices, workshops, new HVAC, and sprinklers. Project cost \$1 million.			
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
2.	Annual Major/Collector Street Overlay Phoenix, Arizona	Professional Services 2009	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
Annual rubberized asphalt overlay contract, 8-20 miles/year, \$5-15 million; wrote contract specifications, selected streets, processed payments and change orders. Performed work from 1984 to 2009.			
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
3.	Annual Local Street Overlay Phoenix, Arizona	Professional Services 2009	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
Annual rubberized asphalt overlay contract, 12-25 miles/year, \$6-10 million; wrote contract specifications, selected streets, processed payments and change orders. Performed work from 1984 to 2009.			
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
4.	Annual Major/Collector Street Microseal Phoenix, Arizona	Professional Services 2009	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
Annual microsurfacing contract, 2-12 miles/year, \$1-5 million; wrote contract specifications, selected streets, field inspection, processed payments and change orders. Performed work from 1984 to 2009.			
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
5.	Annual Local Street Slurry Seal Phoenix, Arizona	Professional Services 2009	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
Annual slurry seal contract, 12-25 miles/year, \$1-7 million; wrote contract specifications, selected streets, field inspection, processed payments and change orders. Performed work from 1984 to 2009.			



a. NAME SHANE HAMMEMAN, PLA	b. ROLE IN THIS CONTRACT Landscape Architecture	c. YEARS EXPERIENCE	
		1. TOTAL 19	2. WITH CURRENT FIRM <1
d. LOCATION (City and State) Phoenix, Arizona			
e. EDUCATION (Degree and Specialization) M.B.A., Arizona State University Bachelor of Landscape Architecture, Iowa State University		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona PLA No. 34185 CPESC Cert Number 7405	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) NA			

H. RELEVANT PROJECTS			
1.	(1) TITLE AND LOCATION (City and State) ADOT Resident Landscape Architect and Design Landscape Architect Maricopa County, Arizona	(2) YEAR COMPLETED	
		Professional Services 2012-2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
<p>Represent ADOT as the project owner and administrator of roadway construction projects including coordinating bid packages, project award, planning and executing preconstruction meetings, identifying and partnering with municipal partners and key stakeholders, assembling required construction permits, reviewing contractor submittals, reviewing and approving project budget and schedule, overseeing inspector teams, coordinating utility impacts, reviewing RFIs and ASIs, negotiating change orders, and managing project closeout.</p> <p>ADOT Design Projects:</p> <ul style="list-style-type: none"> • Happy Valley to Carefree Highway • QC on portions of the 202 Red Mountain and 202 I-10 to Kyrene <p>ADOT Construction Projects:</p> <ul style="list-style-type: none"> • 303-I-10 to Lake Pleasant Blvd • 303-Lake Pleasant Blvd to Happy Valley Road • US 60 Idaho T.I. • I-10 107th Ave to Sarival (multiple projects) • 202 SR 54 T1 • Grand Ave Olive to 67th Ave 			
2.	(1) TITLE AND LOCATION (City and State) District Environmental Coordinator Maricopa County, Arizona	(2) YEAR COMPLETED	
		Professional Services 2012-2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
<p>Act as District Environmental Coordinator providing expertise on AZPDES with SWPPP, PM 10 Dust Control, 401/402/404 permitting, and archeological and biological mitigation. Responsible for interpreting risks of various types of actions related to environmental challenges. Set precedent for environmental policy with a focus on constructability.</p>			



3.	(1) TITLE AND LOCATION (City and State) Buckeye Area Drainage Master Plan Buckeye, Arizona	(2) YEAR COMPLETED	
		Professional Services 2005	Construction (if applicable) 2006
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
	Project Landscape Architect as a sub consultant to research and provide mitigation planning, development, and feasibility analysis of flood mitigation alternatives. Utilizing an evolutionary step in the process of CHSHM (cost effective, context sensitive, and acceptable to the public and stakeholders within the project area), Shane coordinated with the MCFCD and the consultant team to develop flood control alternatives that met the identified criteria.		
4.	(1) TITLE AND LOCATION (City and State) Sonoqui Wash Phase III Queen Creek, Arizona	(2) YEAR COMPLETED	
		Professional Services 2009	Construction (if applicable) 2011
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
	Project Landscape Architect as a sub consultant to provide schematic design and construction documents for a basin, channel, and subsurface drainage for the Maricopa County Flood Control District (MCFCD). The project scope for landscape architecture included design of a multi-use basin with a sediment basin, a multi-use trail, grading of the basin and channel, and landscape design.		
5.	(1) TITLE AND LOCATION (City and State) Reems Road Basin and Channel Maricopa County, Arizona	(2) YEAR COMPLETED	
		Professional Services 2004-05	Construction (if applicable) 2005-06
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
	Project Landscape Architect working with MCFCD in-house engineering designers to provide schematic design and construction documents for a basin, channel, and subsurface drainage. The project scope for landscape architecture included design of a multi-use basin for future use as a recreation facility, a multi-use trail, grading of the basin and channel, and landscape design. The integrated trail accommodates pedestrians, bicycles, equestrian use, and maintenance access.		



2015 ANNUAL PROFESSIONAL SERVICES LIST
NO: ADSP015-00004729

a. NAME MAX INFANTE, PE	b. ROLE IN THIS CONTRACT Resident Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 12	2. WITH CURRENT FIRM 1
d. LOCATION (City and State) Tucson, Arizona			
e. EDUCATION (Degree and Specialization) B.S. Civil Engineering, University of Arizona		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona PE No. 46614	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) NA			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) City of Tucson Construction Surveillance Tucson, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Horrocks is currently providing three to eight inspectors to the City of Tucson to augment the construction management, testing, and inspection needs. Max has served as the Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (City and State) Santa Cruz County Construction Management and Development Santa Cruz County, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Horrocks currently provides a Project Manager and a Project Supervisor who are developing personnel to manage and inspect various construction projects. In addition, they are currently overseeing (from cradle to grave) the development of a material source pit, maintenance building, rehabilitation of two bridges, and the maintenance of several county roads and streets.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (City and State) ADOT Temp Tech Contract Statewide, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Horrocks currently provides up to three Resident Engineers, four Project Supervisors, and 40 Inspectors that work throughout the state providing the following services: construction management, testing and inspection, material testing, and SWPPP development, implantation, and oversight. The listed services are provided on bridge, roadway, rest areas, and landscaping projects throughout the state ranging from \$200,000 - \$80 million in construction costs.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (City and State) Prescott – Ash Fork Highway (SR 89) Prescott, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The work is located in Yavapai County on State Route 89 between milepost 332.79 and milepost 333.35, approximately five miles north of the Town of Chino Valley at Del Rio Ranch bridge. The project has a \$4 million budget and consists of removing a six-span reinforced concrete continuous slab bridge and replacing it with six-span cast-in-place closed-frame bridge. Additional work includes approach slab, pavement markings, and other miscellaneous work.	<input type="checkbox"/> Check if project performed with current firm	



5.	(1) TITLE AND LOCATION (<i>City and State</i>) Palo Parado Road and Bridge Project, I-19 East Frontage Road to Union Pacific Railroad Santa Cruz County, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
	<p>The \$4.8 million project is located at the I-19/Palo Parado Road Interchange and begins at the West Frontage Road, crosses the Santa Cruz River, to the Union Pacific Railroad, transitioning into the existing Caballero Corte alignment. It is located approximately six miles north of Rio Rico, in Santa Cruz County. The work consists of two 12-foot paved travel lanes with 5-foot paved shoulders east and west bound along the proposed roadway alignment, approximately 820-foot span bridge with two 14-foot travel lanes, new bank protection, drainage modifications, and other incidental work.</p>		



a. NAME ALANA LEWICKI, PE	b. ROLE IN THIS CONTRACT Resident Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 11	2. WITH CURRENT FIRM 6
d. LOCATION (City and State) Surprise, Arizona			
e. EDUCATION (Degree and Specialization) B.S. Civil Engineering, Clarkson University		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona PE No. 47032	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Certified Professional in Erosion and Sediment Control, ATTI Field Technician, OSHA Training - Construction Safety & Health #002283086			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) I-40 Rattlesnake Wash to US 93 Pavement Preservation Mohave County, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	The work included milling existing pavement and replacing with new asphalt, pavement markings, recessed pavement markers, rumble strip, new bridge concrete barrier wall, and related work. Alana worked as the Project Manager.		
2.	(1) TITLE AND LOCATION (City and State) Ash Fork Bridges I-40 Coconino County, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	The project scope includes a full-depth deck replacement on two bridges, and deck repairs on eight additional bridges. Work included hydro demolition, milling, applying microsilica modified concrete overlays, polymer epoxy overlays, methacrylate, and other related work. The detours on this project extended into another project which was in construction at the same time. This presented a challenge in managing the construction activities, and was addressed by keeping channels of communication open and working around each others schedule. Alana worked as the Project Manager.		
3.	(1) TITLE AND LOCATION (City and State) SR 95 Fencing La Paz County, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	The project scope included installation of new barbed wire game fencing along SR 95 between London Bridge Road and I-40, new cattle guards, and related work. Alana worked as the Project Manager.		
4.	(1) TITLE AND LOCATION (City and State) 40 Flat Top Wash Bridge Repair Coconino County, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	The project scope of work includes replacing and widening the existing eastbound bridge deck and approach slabs, constructing a new scour floor, applying shotcrete, reconstructing guardrail, and other miscellaneous work. Responsibilities include completion of change orders, force accounts, pay estimates, administration of contractors contract and field resolutions with the contractor, make decisions regarding technical project issues and shop drawing reviews, interface with the project designer to resolve issues quickly, and supervision of construction field office staff and inspectors.		



	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
5.	SR 89 Hell Canyon Bridge Urgent Repair Yavapai County, Arizona		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
	<p>The work consisted of repairing both partial and full depth areas of the bridge deck, application of methacrylate, reconstruction of the North expansion joint, and an epoxy overlay. Horrocks was involved in the design through construction, facilitated the partnering meetings, and managed staffing and staffing plans. Responsibilities included completion of change orders, force accounts, pay estimates, and administration of contractors contract. During this project, we completed all field resolutions with the contractor, made decisions regarding technical project issues and shop drawing reviews, interfaced with the project designer to resolve issues quickly, and supervised construction field office staff and inspectors.</p>		



a. NAME TONY BLUM	b. ROLE IN THIS CONTRACT Construction Inspector	c. YEARS EXPERIENCE	
		1. TOTAL 4	2. WITH CURRENT FIRM 3
d. LOCATION (City and State) Surprise, Arizona			
e. EDUCATION (Degree and Specialization) NA		f. PROFESSIONAL TRAINING - REGISTRATIONS NA	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) ACI Concrete certificate, ATTI Field certification, AzAGC Erosion Control Coordinator Certification, OSHA Certified			

H. RELEVANT PROJECTS			
1.	(1) TITLE AND LOCATION (City and State) Hoover Dam – Kingman Highway (US 93)(Hoover Dam to MP 17) Mohave County, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2011
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
	<p>This project is located in Mohave County on US 93, beginning approximately at milepost 2.36 and continues south approximately 15 miles to milepost 17.35. The work consists of constructing a two-lane roadway parallel to the existing two-lane roadway. The work also includes milling existing asphaltic concrete pavement; constructing new asphaltic concrete pavement; constructing new box culverts; installing pipe culverts; constructing embankment curb, down-drains, spillways, guardrail, and fence; widening two mainline bridges (AASHTO Type 3 girder); constructing two new mainline bridges (AASHTO Type 4 girder); constructing three wildlife overpass bridges (AASHTO Type 5 Modified girder); placing pavement markings; signing, and other related miscellaneous work. The total cost for this project was \$86.3 million.</p>		
2.	(1) TITLE AND LOCATION (City and State) Topock – Kingman Highway (Holy Moses Wash – Rattlesnake) System Preservation-Restoration/Rehab/Resurface Mohave County, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2010
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
	<p>This work is located in Mohave County on I-40 through the City of Kingman. The project begins at milepost 46.55 and extends east to MP 56.94. The work consists of milling existing pavement and replacing it with 3/4-inch Asphaltic Concrete (End Product) and Asphalt Rubber - Asphaltic Concrete Friction Course. Additional work included replacing guardrail and guardrail end terminals, replacing pavement markings, and other miscellaneous work. The total cost for this project was \$6.4 million.</p>		
3.	(1) TITLE AND LOCATION (City and State) Mariposa Land Port of Entry Nogales, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
	<p>S5 Duties included special inspections on underground sewer, fire, water lines and electrical/communication conduits. PCCP Class S and Class B concrete sampling, measuring, testing, and paying. Density testing of all earth work. Special inspections of new permit building comprising of plumbing, electrical, CMU, framing, mechanical systems, drywall, roofing, and mill work. Monitored monthly estimates and responsible for all pay items. Signing and striping inspection. Traffic control review with weekly MPT reports. Responsible for all Quantlist checklists and inspections on the inspection booths and new permit building.</p>		



2015 ANNUAL PROFESSIONAL SERVICES LIST

NO: ADSP015-00004729

4.	(1) TITLE AND LOCATION (City and State) SR 238, MP 24-32 Maricopa, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
	Inspected, tested, measured, and paid for all aspects of the chip seal process including CSS 1:1, cover material, CRS-2P and blotter material. Completed corresponding Quantlists. Traffic control review with weekly MPT reports.		
5.	(1) TITLE AND LOCATION (City and State) Why – Tucson Highway (SR 86)(MP141.1 to Reservation Bounda) System Preservation Pima County, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2010
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
	This work is located in Pima County on SR 86 between mileposts 141.10 to 145.78, approximately five miles west of Robles Junction. The work consists of widening the roadway, widening a bridge structure, extending existing culverts, improving drainage, pavement markings, seeding, and other miscellaneous work. Total project cost was \$5.8 million.		



a. NAME JACOB WALLACE	b. ROLE IN THIS CONTRACT Construction Inspector	c. YEARS EXPERIENCE	
		1. TOTAL 15	2. WITH CURRENT FIRM 2
d. LOCATION (City and State) Tucson, Arizona			
e. EDUCATION (Degree and Specialization) NA		f. PROFESSIONAL TRAINING - REGISTRATIONS MSHA OSHA Safe Trench Course Soil and Cement Testing	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) NA			

H. RELEVANT PROJECTS			
1.	(1) TITLE AND LOCATION (City and State) City of Tucson Construction Surveillance Tucson, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	Horrocks is providing construction inspection and materials sampling required for public works construction for projects assigned under various projects throughout Tucson, Arizona on an as needed basis. The contract was renewed for its fourth year. Jacob is serving as an inspector for this project.		
2.	(1) TITLE AND LOCATION (City and State) Ducati Home Tucson, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
	Jacob oversaw all phases of land development from preliminary to final completion stages, including: complete stage walk through with inspector; supervision of vertical building of 5,000 square feet custom homes; scheduling of surveys; RFI from structural engineer; complete visual walk through with homeowners throughout the different phases of construction in order to evaluate the status of construction; collaboration with personnel; site feasibility analysis.		
3.	(1) TITLE AND LOCATION (City and State) Meritage Homes Tucson, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2008
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
	Served as the Project Manager. Duties included: all phases of paving, grading, concrete, rip-rap, compaction test, wet and dry utilities; schedule all general contractors to start and completion of contract or project; accounts receivable and payable; generate billings for all jobs, create invoices; submit all engineer (RFI) and all municipalities (RFI); review bids and proposals, send out and follow up to confirm received; job cost all jobs and create a working budget with a contingency; update ledger daily with invoices paid and owed; filing all office paperwork, contracts, plans, bids and proposals; follow up on all permits and inspections; weekly meetings with contractors, inspectors, and municipalities; maintain public relations with city and town; keep a running log of all activity pertaining to contracts; make sure work is to quality; generate contract agreements, terms and conditions, work orders, change orders; tracking subcontractors general liability and workmen's compensation coverage; tracked all activity for each job including change and work orders and contracts allowing for up to date viewing of progress for the field; tracking budgets daily for each job to avoid going over budget; establishing good working relationship with vendors through effective communication; assisting with all steps of bids and proposals.		



4.	(1) TITLE AND LOCATION (City and State) The Ashton Co. Tucson, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2004
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
	Served as the Grade Checker/Foreman. Duties included: supervision and overseeing job site and subcontractors; weekly communication and updates to client serving as point of client contact; maintaining daily progress logs; overseeing all dirt work, concrete, paving, barricades, striping, sewage and underground; scheduling subcontractors; ordering/delivering materials to job site; knowledge of all civil and structural blue prints; call in for inspections, permits, and Blue Stakes.		
5.	(1) TITLE AND LOCATION (City and State) GRG Construction Tucson, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 1999
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
	Served as the Grade Checker/Operator. Duties included: setting grade stakes, work with soils engineer; controlling fill and cut areas; setting slope stakes; blue topping all pads, and finishing abc; all adjustments for sewer, water, and electric; swing ties for all utilities; frequent communication with operators and foreman; detention/retention areas to finish grade.		



a. NAME FERNANDO GRIJALVA, EIT	b. ROLE IN THIS CONTRACT Construction Inspector	c. YEARS EXPERIENCE	
		1. TOTAL 12	2. WITH CURRENT FIRM <1
d. LOCATION (City and State) Tucson, Arizona			
e. EDUCATION (Degree and Specialization) B.S. Civil Engineering, University of Arizona		f. PROFESSIONAL TRAINING - REGISTRATIONS E.I.T. AZ No. 12817-21399	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) ACI ATTI SWPPP Hazwoper			

H. RELEVANT PROJECTS			
1.	(1) TITLE AND LOCATION (City and State) Valencia Road Improvements (Alvernon to Wilmot Road) Pima County, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		
<p>Served as the Senior Inspector. Duties included the inspections of the following items: over excavations and re-compact roadway, subgrade, aggregate base, Geosynthetic reinforced fabric installation for embankments, catch basins, storm drain, sidewalk, concrete curb, SWPPP, railroad bridge inspections, traffic control, and landscaping. The project involves the widening and reconstruction of Valencia Road from Alvernon Way to Wilmot Road, a total length of 3.3 miles. Including the widening of Valencia Road to six lanes, the inclusion of multi-use lane and sidewalks, widening under I-10 at the Valencia Road Interchange, and the widening of the bridge at the UPRR overpass.</p>			
2.	(1) TITLE AND LOCATION (City and State) La Cholla Boulevard Improvements (Magee Road to Overton Road) Pima County, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		
<p>Served as the Senior Inspector and Office Engineer. Duties included the inspection of the following items: all bridge components, subgrade, aggregate base and headwalls, and performing all office duties related to monthly estimates, payrolls, force accounts, submittals and RFI's tracking. The work consisted of constructing a four-lane arterial roadway with a raised median along the La Cholla Boulevard alignment from just north of Magee Road to just north of Overton Road, and two new six-span structures over the Canada del Oro Wash. The work includes earthwork; constructing a storm drain system; constructing concrete box culverts; building two similar six-span bridges; furnishing and placing aggregate base and asphaltic concrete; constructing concrete curb, concrete sidewalk, and concrete channel lining; furnishing and installing guard rail, pavement markings, traffic signals, irrigation, and plants.</p>			



3.	(1) TITLE AND LOCATION (City and State) Lambert Lane (La Canada Drive and Pusch View Lane) Town of Oro Valley, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		
<p>Served as the Field Office Engineer/Inspector. The project begins just east of the intersection of La Canada Drive and Lambert Lane and ends about 200 feet west of Pusch View Lane. The project consists of widening Lambert Lane to four-lane divided roadway, including slope stabilization by using soil nail walls and gravity walls, cross drainage facilities, storm drain pipe, irrigated landscaping, signing and striping, medians, sidewalk, multi-use pathway, water lines, and public art. Duties included field inspection of gravity block and soil nails retaining structures, drainage structures, roadway, landscaping, and traffic control. Coordinating all water line field conflicts with utility lines, culvert boxes, final grading adjustments and storm drain system, maintaining good communication to resolve design issues due to change orders affecting the proposed project plans with the Town of Oro Valley inspectors Kent Celey and Mark Moore. Field office duties included all aspects file management, drafting change orders, preparing cost estimates, and keeping weekly meeting minutes.</p>			
4.	(1) TITLE AND LOCATION (City and State) La Cholla Boulevard Widening (Ruthrauff Road – River Road) Pima County, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		
<p>Served as the Field Office Engineer/Inspector. The project consisted of constructing a six-lane arterial roadway with a raised median along the La Cholla Boulevard alignment from Ruthrauff Road to River Road. The project length is 0.92 miles and includes the intersections of Ruthrauff Road and Curtis Road. Work includes earthwork, storm drain work, two three-span bridges, placing aggregate base and asphaltic concrete, construction of concrete curb, traffic signals, landscaping, and related incidental work. Duties included field inspection of roadway and landscaping. Field office duties included all aspects of file management, drafting change orders, preparing cost estimates, and keeping weekly meeting minutes.</p>			
5.	(1) TITLE AND LOCATION (City and State) Camino de Mañana (Linda Vista Boulevard - Tangerine Road) Pima County, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2011
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		
<p>Served as the Field Office Engineer. Managed the day-to-day operations of URS' Field Office on this full service Construction Manager At Risk (CMAR) project. Roles and responsibilities included quantity tracking/verification; supplemental agreement preparation/tracking/payment; monthly construction reporting; staffing plans; weekly time reporting; documentation organization, and information distribution. The project consisted of constructing 3.3 miles of new alignment and existing roadways. The scope of work included new roadway construction with multi-use lanes, a 20-foot wide landscaped median, cross culvert drainage improvements, pavement drainage improvements, furnishing and installing pavement markings and signing, modification of an existing traffic signal, and other related incidental work.</p>			



a. NAME MICHAEL DANIELS ACI, ATTI, ATTSA	b. ROLE IN THIS CONTRACT Construction Inspector	c. YEARS EXPERIENCE	
		1. TOTAL 10	2. WITH CURRENT FIRM 1
d. LOCATION (City and State) Tucson, Arizona			
e. EDUCATION (Degree and Specialization) NA		f. PROFESSIONAL TRAINING - REGISTRATIONS <ul style="list-style-type: none"> • ACI Concrete Field Testing Technician - Grade I; Expires 3/09/18 • ATTI Field Testing Technician; Expires 10/25/13 • ATSSA (American Traffic Safety Services Association) • OSHA Permit-Required Confined Space Training • Storm Water Pollution Prevention Management - 4 Hour Training • AGC-ADOT Erosion Control Coordinator Training • Registered Member of the Miwuk Nation of Shingle Springs, California • Radiation Safety and Nuclear Gauge User Safety 	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) NA			

H. RELEVANT PROJECTS			
1.	(1) TITLE AND LOCATION (City and State) US 60 MP 278 - Globe District Gila County, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2009
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
	Served as the Construction Inspector. Project consisted of milling and cleaning three inches of existing asphalt, applying tack coat and laying three inches of new asphalt for approximately 16 miles of roadway. Responsibilities included: <ul style="list-style-type: none"> • Continuous checking depth of removal • Ensuring cleanliness of areas milled • Ensuring quantity of tack coat before new asphalt placement • Working with senior inspector on computations of core layouts • Documenting all loads of asphalt entering project 		
2.	(1) TITLE AND LOCATION (City and State) US 70 and BIA 6 Gila County, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2009
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
	Served as the Construction Inspector. Project consisted of the widening of the roadway for turn-bays and acceleration/deceleration lanes, slope flattening, drainage improvements (cmp pipe placements), guardrails, pavement markings, and new signage.		



3.	(1) TITLE AND LOCATION (City and State) US 191 at MP 328 Lake Havasu City, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2009
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
	<p>Served as the Construction Inspector for this pavement preservation and bridge replacement. Responsibilities included:</p> <ul style="list-style-type: none"> • Inspections of surface scores on entire bridge deck • Density testing of ingress/egress to bridge • Lay out limitations of roadway asphalt to include guard rail placement 		
4.	(1) TITLE AND LOCATION (City and State) SR 347 Maricopa Self Storage MP 173 Maricopa County, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
	<p>Project consisted of removal of 300 feet of raised medium replaced with left hand turn bay which included removal and replacement of new type 1 vertical curb. Responsibilities included:</p> <ul style="list-style-type: none"> • Testing and sampling of SG, FSG, AB, asphalt, and concrete • Ensuring all signage and roadway markings are in accordance with ADOT specifications, plans, and special provisions 		
5.	(1) TITLE AND LOCATION (City and State) La Cañada Road Improvement Project, River Road to Ina Road Pima County, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
	<p>As Inspector, Michael was responsible for plans and specifications compliance for this \$19 million project. Project improvements consisted of widening the existing roadway in order to improve safety, reduce congestion, improve operations, and increase mobility. Some of the features include a joint utility trench, additional travel lanes, raised landscaped median, multi-use lanes, drainage cross-culverts, outside curbs with storm drain facilities, provision for pedestrians and equestrian uses, public art work, and noise mitigation for adjacent residential areas.</p>		



a. NAME VINCE NECHERO, PLS	b. ROLE IN THIS CONTRACT Survey Manager	c. YEARS EXPERIENCE	
		1. TOTAL 28	2. WITH CURRENT FIRM 2.5
d. LOCATION (City and State) Phoenix, Arizona			
e. EDUCATION (Degree and Specialization) NA		f. PROFESSIONAL TRAINING - REGISTRATIONS AZ PLS No. 36171	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) NA			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) Calliandra Estates Gilbert, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	Survey for the infrastructure design for residential development in Gilbert, Arizona on Riggs Road. The project included a grading, drainage, storm water management for 57 acres, water system network analysis, and design of 11,200 linear feet of 8-inch distribution mains, and 2.3 miles of local streets. Project included all civil engineering design and civil project management. The original construction cost is estimated at \$6 million. The project is scheduled to be completed in 2015.		
2.	(1) TITLE AND LOCATION (City and State) Canyon Views Subdivision Buckeye, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	Survey for the preliminary infrastructure design for residential development in Buckeye, Arizona, at the northwest corner of 195th Avenue and Missouri Avenue. Project includes about 280 acres of site grading and drainage design, including over eight miles of collector and local streets. It includes a water system network analysis to satisfy both maximum daily demand and fire flow requirements and the design of 51,900 linear feet of 8- and 12-inch distribution mains and a 4632 linear feet 24-inch transmission main. Project included all civil engineering design and civil project management. The original construction cost is estimated at \$29 million. The project is scheduled to be completed in 2016.		
3.	(1) TITLE AND LOCATION (City and State) SR 303L Freeway Loop; Grand to Happy Valley Parkway Surprise and Peoria, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	Vince was a Surveyor of Record for this project, in which Horrocks is the prime designer for this \$30 million construction project. It widens the existing two lanes into three lanes in each direction and changes the structural section from asphaltic concrete to P.C.C.P. The project is scheduled to be completed in 2015.		
4.	(1) TITLE AND LOCATION (City and State) Luke Air Force Base; F35 Academic Training Center Glendale, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	Surveyor of Record for the construction of a 145,195 SF multi-story sprinkler equipped facility located on the Luke Air Force Base in Glendale, Arizona. Work includes, but not limited to layout with centerlines and offsets of utilities, demolition, new buildings and civil site improvements by a RLS. Layout of sawcut lines, staging areas, road limits, staking rough grade and benchmarks, retention tanks, waterlines at 50 foot intervals, blue tops, layout of grids for concrete pavement and ATC building and utility building control lines and create as-builts.		



	(1) TITLE AND LOCATION <i>(City and State)</i> Valley Metro Light Rail Mesa, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
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
	<p>Horrocks Engineers was selected by Valley Metro LRT to provide completed right-of-way acquisitions and public utility and facility easements through legal descriptions and exhibits. Our team created a right-of-way survey map along the Central Mesa Extension project corridor. They determined the boundary for over 130 parcels through review of the title reports and field measurements. This information was entered into CAD and a base map was created. Existing right-of-way and all encumbrances were plotted for Metro Light Rail and the City of Mesa's review. The team developed new right-of way, public utility, facility, and temporary construction easements on the project, and created more than 300 legal descriptions and exhibits for all of the parcels affected by this project. Preliminary work on the project included research of all existing plats in the area that affected the Metro Light Rail Extension, converting all plats to CAD drawings, physically verifying all property corners, and PLSS corners. In addition to those efforts, the team confirmed the accuracy of the project's control with existing monument lines and the verification of the Cadastral Surveys from Maricopa County. Once these legal descriptions and exhibits were approved by Valley Metro and the City of Mesa, property corners were set and recordation took place. All surveys were in compliance with the State Board of Technical Registrations minimum standards. Horrocks also provided approximately 500 pothole results via the vacuum extraction method under a direct contract executed with Valley Metro. Frequent and effective coordination with the City, Valley Metro, and the complete rail design team was provided by Horrocks to ensure a profitable and pleasant experience for all stakeholders. Vince was a Surveyor of Record for this project.</p>		



a. NAME AARON MICHALENKO, PLS	b. ROLE IN THIS CONTRACT Project Surveyor	c. YEARS EXPERIENCE	
		1. TOTAL 9	2. WITH CURRENT FIRM 2
d. LOCATION (City and State) Phoenix, Arizona			
e. EDUCATION (Degree and Specialization) A.S. Surveying Technology/CAD Technology		f. PROFESSIONAL TRAINING - REGISTRATIONS AZ PLS No. 51979	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) NA			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) SR 303L Freeway Loop; Grand to Happy Valley Parkway Surprise and Peoria, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	Aaron is a Surveyor of Record for this project, in which Horrocks is the prime designer for this \$30 million construction project. It widens the existing two lanes into three lanes in each direction and changes the structural section from asphaltic concrete to P.C.C.P. The project is scheduled to be completed in 2015.		
2.	(1) TITLE AND LOCATION (City and State) Luke Air Force Base; F35 Academic Training Center Glendale, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	Surveyor of Record for the construction of a 145,195 SF multi-story sprinkler equipped facility located on the Luke Air Force Base in Glendale, Arizona. Work includes, but not limited to layout with centerlines and offsets of utilities, demolition, new buildings and civil site improvements by a RLS. Layout of sawcut lines, staging areas, road limits, staking rough grade and benchmarks, retention tanks, waterlines at 50 foot intervals, blue tops, layout of grids for concrete pavement and ATC building and utility building control lines and create as-builts.		
3.	(1) TITLE AND LOCATION (City and State) SR 86 - Kitt Peak Pima County	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	Horrocks Engineers performed all of the construction staking and layout for this project. This combined project is located on SR 86 starting about 5.5 miles west of SR 386 (Kitt Peak Road) and ending about 2.8 miles east of SR 386 in Pima County within the Tohono O'odham Nation. The work includes roadway excavation and embankment, asphalt concrete paving, polymer chip seal coat, extending and constructing box culverts and pipe culverts, signs, pavement markings, and related items. Aaron performed survey duties for this project.		



4.	(1) TITLE AND LOCATION (City and State) Nissan Test Track Pinal County, Arizona	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
<p>Horrocks provided construction staking services for a one mile test track for Nissan Motor Company in Pinal County, Arizona. This specific test track was created based off of multiple locations throughout the world. Civil engineers were brought in to survey and 3D laser-scanned multiple roads with varying driving conditions. Each area scanned had known road issues that created problems for Nissan cars, so our survey crew had to be extremely critical with the accuracies that they held. On the most severely complex areas, our survey team had to lay asphalt stakes/hubs every three inches just to catch all the grade changes in the road. All of the 3D information was compiled and implemented, creating the Nissan Test Track. The Horrocks team completed this project ahead of schedule and under budget. Aaron was the Project Manager for this project.</p>			
5.	(1) TITLE AND LOCATION (City and State) Valley Metro Light Rail Mesa, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
<p>Horrocks Engineers was selected by Valley Metro LRT to provide completed right-of-way acquisitions and public utility and facility easements through legal descriptions and exhibits. Our team created a right-of-way survey map along the Central Mesa Extension project corridor. They determined the boundary for over 130 parcels through review of the title reports and field measurements. This information was entered into CAD and a base map was created. Existing right-of-way and all encumbrances were plotted for Metro Light Rail and the City of Mesa's review. The team developed new right-of way, public utility, facility, and temporary construction easements on the project, and created more than 300 legal descriptions and exhibits for all of the parcels affected by this project. Preliminary work on the project included research of all existing plats in the area that affected the Metro Light Rail Extension, converting all plats to CAD drawings, physically verifying all property corners, and PLSS corners. In addition to those efforts, the team confirmed the accuracy of the project's control with existing monument lines and the verification of the Cadastral Surveys from Maricopa County. Once these legal descriptions and exhibits were approved by Valley Metro and the City of Mesa, property corners were set and recordation took place. All surveys were in compliance with the State Board of Technical Registrations minimum standards. Horrocks also provided approximately 500 pothole results via the vacuum extraction method under a direct contract executed with Valley Metro. Frequent and effective coordination with the City, Valley Metro, and the complete rail design team was provided by Horrocks to ensure a profitable and pleasant experience for all stakeholders. Aaron was a Surveyor of Record for this project.</p>			



a. NAME TC FISH, PE	b. ROLE IN THIS CONTRACT Construction Administration	c. YEARS EXPERIENCE	
		1. TOTAL 5	2. WITH CURRENT FIRM 1
d. LOCATION (City and State) Phoenix, Arizona			
e. EDUCATION (Degree and Specialization) B.S. Civil and Environmental Engineering, Arizona State University		f. PROFESSIONAL TRAINING - REGISTRATIONS AZ PE No. 55172	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) NA			

H. RELEVANT PROJECTS

H. RELEVANT PROJECTS			
1.	(1) TITLE AND LOCATION (City and State) Sunset Point Rest Area, I-17 Black Canyon City, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
Served as a Project Supervisor for drilling and equipping a new water well, the installation of new utility lines from the well to the existing pump house and storage tank, and other electrical and water system improvements. In addition, the project includes the repair of five ramada roofs at the southern end of the rest area as well as concrete rehabilitation, crack injection, and striping. The work is part of a statewide rest-area rehabilitation program that will occur over the next several years. ADOT plans to spend \$17.4 million to repair and refurbish 16 rest areas across the state, improving the waste and water systems. Horrocks has been actively involved in a number of these projects.			
2.	(1) TITLE AND LOCATION (City and State) SR 89AS, Fain Road Widening Yavapai County, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
Served as a Project Supervisor for constructing a two-lane northbound roadway parallel to the existing Fain Road to provide a four-lane divided roadway. This \$16.3 million project included: <ul style="list-style-type: none"> • Construct two NB travel lanes between MP 326.2 and 331.7 • Extend two RCBCs and ten CMPs • Construct bridges for new NB travel lanes at Lynx Creek, Agua Fria River, Lakeshore Drive, and Coyote Wash • Remove existing game fence extending from R/W line to existing bridge and replace with new game fences at Lynx Creek, the Agua Fria River, and Coyote Wash • Reconstruct intersection at Sara Jane Lane • Remove or extend existing and/or install new PVC conduits, as needed, to provide for potential future traffic signal installation • Reconstruct NB on and off ramps at Lakeshore Drive • Mill and replace pavement on the existing two-lane roadway 			
3.	(1) TITLE AND LOCATION (City and State) Larry Caldwell Drive - SR 89A Yavapai, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
Project Supervisor for project including pavement milling and replacement, markings, raised markers, rumble strips, and related work. Responsibilities included overseeing milling and placement of ACFC, reviewing project submittals, conduct project meetings including final walkthrough, completed project final, and developed as- drawings.			



4.	(1) TITLE AND LOCATION (City and State) SR 303L Freeway Loop; Grand to Happy Valley Parkway Surprise and Peoria, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	TC performed design-build quality services for this project, in which Horrocks is the prime designer for this \$30 million construction project. It widens the existing two lanes into three lanes in each direction and changes the structural section from asphaltic concrete to P.C.C.P. The project is scheduled to be completed in 2015.		
5.	(1) TITLE AND LOCATION (City and State) SR 89 White Spar Road Yacapai County, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	Project Supervisor for widening project including paving, sidewalk/parking lot, and storm sewer. Responsibilities included overseeing all facets of the project including: work quality, contractor payment, change orders, field changes, stop/resume work orders, contractor submittals, and designer communication.		



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

a. TITLE AND LOCATION (City and State) SR 303L Freeway Loop; Grand to Happy Valley Parkway Surprise and Peoria, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION (if applicable)

PROJECT OWNER’S INFORMATION		
c. PROJECT OWNER ADOT	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$29.8 million	e. TOTAL COST OF PROJECT TBD (Active)

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

Horrocks Engineers is serving as the Design Lead on the FNF design-build team for the SR 303L Freeway Loop; Grand to Happy Valley Parkway project in Surprise and Peoria, Arizona. The project is located on SR 303L, starting at the junction of US 60 (MP 120.10) and SR 303L, and extending north to Happy Valley Parkway (MP 125.18), excluding the El Mirage Road TI (Milepost 123.28 to 124.58).

The work consists of constructing an interim freeway facility including earthwork, paving, noise walls, drainage improvements, landscaping, FMS, signing, lighting, traffic signals, median barrier, and other related work.



As the project progresses, Horrocks is continuing to work closely with ADOT to ensure all design/layout is accurate and within schedule. Horrocks is also coordinating with adjacent projects along SR 303 to ensure the projects tie into each other. The project is scheduled to be completed in 2015.



a. TITLE AND LOCATION (City and State) ADOT Temp Tech Statewide, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
PROJECT OWNER'S INFORMATION		
c. PROJECT OWNER ADOT	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT NA	e. TOTAL COST OF PROJECT NA

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

Horrocks currently provides up to three Resident Engineers, four Project Supervisors, and 40 Inspectors that work throughout the state providing the following services: construction management, testing and inspection, material testing, and SWPPP development, implantation, and oversight. The listed services are provided on bridge, roadway, rest areas, and landscaping projects throughout the state ranging from \$200,000 - \$80 million in construction costs. Horrocks has been providing these services since 2011.



a. TITLE AND LOCATION (City and State) City of Tucson Construction Surveillance Tucson, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)

PROJECT OWNER'S INFORMATION		
c. PROJECT OWNER City of Tucson	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT NA	e. TOTAL COST OF PROJECT NA

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)
 Horrocks Engineers is currently providing three to eight inspectors to the City of Tucson on an on-call basis to augment their construction management, testing, and inspection needs. Due to the nature of on-call contract, we have been able to perform an array of services on hundreds of projects.



a. TITLE AND LOCATION (City and State) Queen Creek On-call Traffic Engineering, Ellsworth Loop and Aldecoa Road Intersection Improvements Queen Creek, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2008	CONSTRUCTION (if applicable) 2009

PROJECT OWNER'S INFORMATION		
c. PROJECT OWNER Town of Queen Creek	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$12,750	e. TOTAL COST OF PROJECT \$250,000

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

The USPS in Queen Creek constructed a new Post Office along Ellsworth Loop Road. With heavy traffic flowing north and southbound along Ellsworth Loop Road, access to the Post Office was very difficult.

Being on Queen Creek's On-Call Transportation Engineering list, Horrocks Engineers was asked to help provide safer ingress/egress for the Post Office. As the prime firm on this project, Horrocks designed a new traffic signal, new signing and striping, and new pedestrian ramps at the intersection of Ellsworth Loop Road and Aldecoa Road, resulting in a safer ingress and egress to the new Post Office. In addition, Horrocks helped design the street lighting, Intelligent Transportation Systems (ITS) Design, utility location, and non-destructive potholing for this project.

There were a variety of cost increases with this project due to major scope changes and additions requested by the Town of Queen Creek. All scope changes, additional tasks, and cost increases were discussed and communicated with the project owner. Once tasks and cost were approved, we proceeded with the project.



a. TITLE AND LOCATION (City and State) Nissan Test Track Pinal County, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION (if applicable) 2013
PROJECT OWNER'S INFORMATION		
c. PROJECT OWNER Nissan Motor Company	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$37,100	e. TOTAL COST OF PROJECT \$34,500

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

Horrocks provided construction staking services for a one mile test track for Nissan Motor Company in Pinal County, Arizona. This specific test track was created based off of multiple locations throughout the world. Top civil engineering firms were brought in to survey and 3D laser-scan multiple roads with varying driving conditions.

Each area scanned had known road issues that created problems for Nissan cars, so our survey crew had to be extremely critical with the accuracies that they held. On the most severely complex areas, our survey team had to lay asphalt stakes/hubs every three inches just to accurately catch all the grade changes in the road.

All of the 3D information was compiled and implemented, creating the Nissan Test Track. The Horrocks team completed this project ahead of schedule and under budget.



6. ADDITIONAL INFORMATION

Horrocks Engineers' approach to successfully completing projects includes:

- Task Order Scoping Procedures
- Cost Controls
- Risk Analysis
- Quality Assurance
- Change Management
- Client Care – Providing Excellent Service



Task Order Scoping

We have formalized procedures that each of our project managers adhere to from project onset through closeout. Our approach is to break projects down into distinct work elements with each element having a clearly defined scope, schedule milestones, budget, quality control activity, and deliverable. Developing projects in this manner helps establish clear expectations and understanding between the project team and the project manager.

Once assigned a standard task order, a detailed scope of work and fee proposal will be prepared and submitted within five working days of the receipt of assignment. Any revisions, as requested and if necessary, will be made and the scope and fee proposal returned within two working days.

Once given a notice to proceed, we take a take-charge approach to managing and performing the work. Our staff is experienced in fulfilling project needs, and effective at documenting activities and critical deadlines while taking the necessary actions to keep the work on track. We have weekly internal project team meetings to keep everyone informed of the progress of each specific task and how each activity relates to other activities.

Our project/task order manager will provide updates at regularly scheduled intervals commensurate with the task order to keep the Department apprised of the project progress. Being proactive and maintaining communication are keys to success on each task order because it allows the Arizona Department of Administration (ADOA) project managers to stay on top of the task's development and be aware of the on-going decisions being made that affect the work.

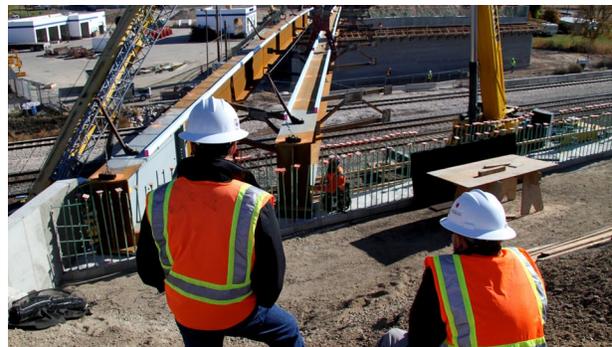
By being a mid-sized employee-owned firm with a history of time-sensitive construction administration and management work experience, and with working principal owners in each office, we are especially adept at making business decisions, locally providing the ability to successfully perform on-site work with limited advance notice.

Cost Controls

Cost control is a critical element of effective project management and has two important components: design engineering costs, and estimated construction costs.

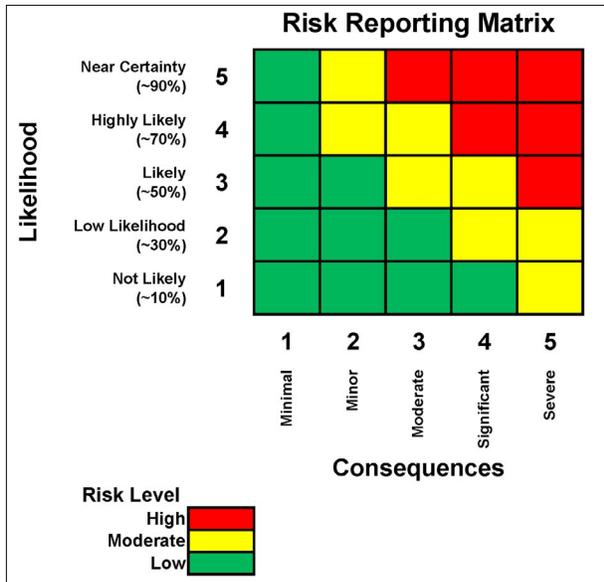
Design engineering costs will be projected on a monthly basis, compared to the project budget, and monitored closely by our Project Manager. Each project assignment will be set up as a separate task and monitored through Horrocks Engineers' financial tracking system, which is capable of generating several types of financial reports that are used to monitor individual project budgets and schedules. Project managers use the financial system to track their projects on a real-time basis and identify any potential scope, schedule, or budget concerns.

Estimated construction costs will be developed at each submittal. Our construction management and administration team will work hand-in-hand with the design team to ensure current and local unit costs are being referenced. Additionally, with our long history of construction management and administration experience and contact with the contractor community, we can employ an Independent Cost Estimate (ICE) comparing engineer's cost estimate to a contractor developed estimate. We have used this successfully on previous contracts to develop better construction cost estimates and meet project budget constraints.



Risk Analysis

A unique service that Horrocks Engineers proposes to make this contract successful is the development of a cost-model risk analysis established at a level of detail commensurate with each assigned task order, schedule, and budget. The risk analysis will establish a risk register with a description of the project risk; a proposed mitigation and cost to cure that risk; and a probability assessment for the risk on a "1-2-3," "red-yellow-green," or other grading criteria.



An impact assessment grade of the probability multiplied by the impact will then be developed from the matrix/risk register. At high risk times, a high probability will require further strategies to assign risk and costs. At low risk times, a low probability may be addressed in several ways from “just mitigate it” because the risk/cost is insignificant, to “just ignore it” because the risk/cost probability is low.

This is a terrific tool that can be utilized on time and budget sensitive projects to assign risk, develop mitigation opportunities, and communicate strategies.

Quality Assurance

Horrocks Engineers fosters and nourishes pride of ownership, responsibility for quality, and a quest for continuous improvement and customer satisfaction. As a team and as individuals, we care. We are well-trained, experienced, and accountable for the work we perform within each technical area of expertise. We have instituted a company-wide process that is ISO-9001 certified and requires both a standardized quality control system and project-specific implementation procedures.

We recognize the ADOA’s ongoing commitment to quality and we are familiar with specific quality checklists that have been developed for various plan reviews. Internally, our QC/QA process includes regular project reviews, independent technical reviews, design and calculation reviews, and report and specification reviews. The standardized quality control procedures identify a method of tracking changes and corrections and verifying that all changes are implemented correctly.

We will prepare QA/QC plans for each assignment to ensure that all deliverables adhere to the quality of work exemplified by the ISO 9001 standards and meet the ADOA’s quality expectations.

Change Management

No matter the size of the project, the deadlines imposed, or budgets (or limitations thereof), successful business relationships and client satisfaction are achieved by keeping an open mind to client/team input, being flexible to new ideas that can improve or streamline a project, keeping a proactive eye out ahead of the project, and being responsive to changes that inevitably occur. It also requires a proactive structure and team philosophy to openly and honestly address common problem areas before they become issues. Horrocks possesses that team structure and philosophy.

Our strategy is to employ a monthly report that, in addition to tracking existing work task progress, can track any change in scope or budget items as they occur (in design or construction activity), especially the critical items that tend to come up including utility relocations, ROW takes, environmental issues, traffic control changes, field conditions, etc. The report will detail any extra work tasks, along with a cost estimate, and will be discussed with the project team weekly, ensuring awareness of any changes as soon as possible for any decision-making that is necessary.

An example of our client-care philosophy is exemplified by our repeat business with clients, continued task orders received on current projects, and yearly contract extensions. We would very much like to extend this courtesy to the ADOA as a new client.



Client Care

Horrocks has established a reputation for providing quality transportation engineering and construction management consulting services to our clients. For 46 years, we have been focused on governmental agencies as priority clients. We will provide quality engineering reports and PS&E documents to maintain reliable client communication, to respond promptly to public questions and concerns, and to meet and/or exceed schedule and budget requirements. We are very much aware of our client’s responsibilities and provide excellent professional service to meet those responsibilities and achieve successful projects.

At Horrocks, we believe there is no such thing as a small project. All projects and task orders are important to us, to our clients, and the community that we serve. Following this simple strategy makes for successful projects.



Key Stakeholders

Key stakeholders will differ in each task order. The importance will be the procedures that the project team utilizes to correctly identify, embrace, and communicate with these stakeholders. A key stakeholder is recognized as someone who:

- Can affect the performance (success or failure) of the project
- Has information or resources required for the project
- Has budgetary responsibilities for the project
- Possesses a vested interest in the project



Typical key stakeholders on professional engineering projects include but are not limited to the local political officials, community members—businesses, residents, users, and activists—technical and administrative ADOA staff members, and utility companies. Horrocks has a full service public involvement team with experience in graphics, social and design media, and project messaging.

Significant Issues

Regardless of the scope, schedule, and budget of a task order, most public infrastructure improvement projects come down to four major issues, each of which requires intensive scrutiny, professional acumen, and quality care. They include:

- Right-of-Way
- Environmental Mitigations
- Utility Coordination
- Public Information and Education

Horrocks is prepared to provide the qualified task order leadership and staff with the necessary relevant project experience to meet these right-of-way, environmental, utility, and public outreach issues head on. We will see that project task orders receive clearances, meet mitigation strategies, and informs the public. We do this with in-house survey crews and right-of-way experts, environmental scientists, our professionally recognized Subsurface Utility Engineering (SUE) team and equipment, and a “working” Project Manager and Principal team.

Opportunities and Challenges

At least 50% of improvement is working on the right challenges (see risk analysis discussion) at the right time. Through our total quality management program, Horrocks is able to engage the project team in making sound, fact-based decisions about what issues and challenges to work on, then executing Opportunities for Improvement (OFI). OFIs for successful public works projects, no matter the scope, schedule, or budget includes:

- Developing sound scopes of work and consequent budgets and schedules
- Communication protocol
- Team dynamics and trust
- Managing expectations and embracing change
- Utility coordination and communications; understanding utility company needs
- Meeting social, environmental, and economic issues
- Public perceptions

As a mid-sized, full-service professional transportation planning, design, and construction administration firm, Horrocks has developed a reputation based on leadership and staff that addresses our clients’ needs, identifies key project specific stakeholders, tackles significant issues, and always look for OFIs.

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:	89%
b. Percentage of Total Work Attributable to Non-Government Work:	11%

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

Signature:  Date: December 30, 2014
 Name: Bobby Lall, PE Title: Principal