



Offer and Acceptance

State of Arizona
State Procurement Office
100 N. 15th Ave. Suite 201
Phoenix, AZ 85007

SOLICITATION NO.: ADSP016-00005912 Request
for Qualifications: 2016 Annual Professional
Services List

PAGE
1

Offeror: CDM Smith Inc.

OF
1

OFFER

TO THE STATE OF ARIZONA:

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

CDM Smith Inc.

Company Name

4835 East Cactus Road, Suite 360

Address

Phoenix

Arizona

85254

City

State

Zip

stanisicd@cdmsmith.com

Contact Email Address

Signature of Person Authorized to Sign Offer

Dusan Stanisic

Printed Name

Principal

Title

Phone: 602-803-1213

Fax:

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

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

ACCEPTANCE OF OFFER

The Offer is hereby accepted.

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

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

The effective date of the Contract is March 1, 2016

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

State of Arizona
Awarded this 29 day of February 2016

Procurement Officer



ATTACHMENT I – General Qualifications

ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

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DEFINITIONS

Architect Services, Engineer Services, Land Surveying Services, Assayer Services, Geologist Services and Landscape Architect Services: Those professional services within the scope of the practice of those services as provided in ARS § 32-101.

Branch Office: A geographically distinct place of business or subsidiary office of a firm that has a key role on the team.

Discipline: Primary technical capabilities of key personnel, as evidenced by academic degree, professional registration, certification, and/or extensive experience.

Firm: Defined in ARS § 32-101(B.19.).

Key Personnel: Individuals who will have major contract responsibilities and/or provide unusual or unique expertise.

SPECIFIC INSTRUCTIONS:

1. Complete this form for each branch office seeking work under this RFQ.
 - a. – e. **Firm (or Branch Office) Name and Address.** Self-explanatory.
 - f. **Year Established.** Enter the year the firm (or branch office, if appropriate) was established under the current name.
 - g. **Ownership.**
 - (g1). *Type.* Enter the type of ownership or legal structure of the firm (sole proprietor, partnership, corporation, joint venture, etc.).
 - (g2). *Small Business Status.* A firm is a small business if the firm has less than 100 employees **or** has gross revenues of \$4 million or less.
 - h.-j. **Point of Contact.** Provide this information for a representative of the firm that the Customer can contact for additional information. The representative must be empowered to speak on contractual and policy matters.
 - k. **Name of Firm.** Enter the name of the firm.
2. **Employees by Discipline.**
 - a. Select disciplines from the List of Disciplines (Function Code) listed on Page 3 of 4 Instructions. For employees that do not qualify for any of the disciplines, select "Other". *Note: The intended searchable database indicated in the RFQ will be populated from the Qualifications Form I Excel attachment only.*
 - b. Each person can be counted only twice; once for his/her primary function and once for his/her secondary function. Primary and secondary functions should be indicated by including a "P" or an "S" in column b after the Description Title is given.
 - c-d. If the form is completed for a firm (including all branch offices), enter the number of employees by disciplines in column c. If the form is completed for a branch office, enter the number of employees by discipline in column d and for the firm in column c.
3. **Profile of Firm's Experience and Annual Average Revenue for Last Year.**
 - a. Enter the approximate number of projects the firm (or branch) has done attributable by Profile Code listed on Page 3 of 4 Instructions over the last year.



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- b. Enter the appropriate Profile Codes from Instructions Pages 3 of 4 that represent the type of work the firm (or branch) has done over the last year.
 - c. Using the Revenue Index Number on Page 3 of 6 Form, indicate the approximate revenue the firm has earned over the last year per Profile Code entered into the table.
4. **Resumes of Key Personnel Proposed for This Contract.** Complete this section for each key person who will participate in this contract.
- a. Self-explanatory.
 - b. Self-explanatory
 - c. Total years of relevant experience (block c1), and years of relevant experience with current firm, but not necessarily the same branch/office (block c2).
 - d. Name, City and State of the firm where the person currently works, which must correspond with one of the firms (or branch office or a firm, if appropriate) listed in Section 1.
 - e. Provide information on the highest relevant academic degree(s) received. Indicate the area(s) of specialization for each degree.
 - f. Provide information on current relevant professional registration(s) and in which State(s) they are current.
 - g. Provide information on any other professional qualifications relating to this contract, such as education, professional registration, publications, organizational memberships, certifications, training, awards, and foreign language capabilities.
 - h. Provide information on no more than five (5) projects in the last year which the person had a significant role that demonstrates the person's capability relevant to her/his proposed role in this contract. These projects do not necessarily have to be any of the projects presented in Section 5 for the project team if the person was not involved in any of those those projects or the person worked on other projects that were more relevant than the team projects in Section 5. Use the check box provided to indicate if the project was performed with any office of the current firm. If any of the professional services or construction projects are not complete, leave Year Completed blank and indicate the status in Brief Description and Specific Role.
5. **Example Projects Which Best Illustrate Firms Qualification for this contract.** Select project where multiple team members worked together, if possible, that demonstrate the team's capability to perform work similar to that required for this contract. Complete one Section 5 for each project. List no more than five (5) projects.
- a. Title and Locations of project or contract. For an indefinite delivery contract, the location is the geographic scope of the contract.
 - b. Enter the year completed of the professional services (such as planning, engineering study, or design), and/or the year completed if construction. If any of the professional services or the construction projects are not complete, leave Year Completed blank and indicate the status in Brief Description of Project and Relevance to This Contract (block f).
 - c. Project Owner or user, such as a government agency or installation, an institution, a corporation or private individual.
 - d. Provide the original budget or not to exceed dollar amount for the project.
 - e. Provide the Total Cost of the Project. If any of the professional services or construction projects is not complete, indicate the percentage complete and whether this project will be on budget, over or under budget.
 - f. Brief Description: Indicate scope, size, and length of project, principle elements and special features of the project. Discuss the relevance of the example project to this contract.
6. **Additional Information.** Use this section to provide additional information you feel may be necessary to describe your firm's qualifications for this contract.
7. **Annual Average Professional Services Revenues of Firm for Last 3 Years.** Complete this block for the firm or branch office for which this form is completed. In column a, enter an approximate percentage of total work attributable to State, Federal or Municipal Work. In column b, enter an approximate percentage of total work attributable to Non-Government work. Percentages should take into consideration work completed over the last 3 years.



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8. **Authorized Representative.** An authorized representative of the firm or branch office must sign and date the completed form. Signing attests that the information provided is current and factual. Provide the name and title of the authorized representative who signed the form.

List of Disciplines (Function Codes) for Question 2

- | | | |
|---------------------------|--|--------------------------|
| Aeronautical Engineer | Environmental Engineer | Mining Engineer |
| Agricultural Engineer | Environmental Scientist | Nuclear Engineer |
| Archeologist | Fire Protection Engineer | Petroleum Engineer |
| Architect | Geodetic Surveyor | Photogrammetrist |
| Architectural Engineering | Geographic Information System Specialist | Project Manager |
| Biologist | Geological Engineer | Sanitary Engineer |
| CADD Technician | Geologist | Soils Engineer |
| Chemical Engineer | Hydrographic Surveyor | Structural Engineer |
| Civil Engineer | Hydraulic Engineer | Technician/Analyst |
| Construction Manager | Hydrologist | Transportation Engineer |
| Construction Inspector | Industrial Engineer | Water Resources Engineer |
| Control Systems Engineer | Landscape Architect | |
| Cost Engineer/Estimator | Mechanical Engineer | |
| Ecologist | Metallurgical Engineer | |
| Electrical Engineer | | |

List of Experience Categories (Profile Codes for Question 3)

- | | |
|---|---|
| Acoustics, Noise Abatement | Construction Materials Testing |
| Aerial Photography; Airborne Data and Imagery Collection and Analysis | Dams (<i>Concrete; Arch</i>) |
| Activity Centers | Dams (<i>Earth; Rock</i>); Dikes; Levees |
| Air Pollution Control | Desalinization (<i>Process and Facilities</i>) |
| Airports; Navajds; Airport Lighting; Aircraft Fueling | Design-Build - Preparation of Requests for Proposals |
| Airports; Terminals and Hangars; Freight Handling | Digital Elevation and Terrain Model Development |
| Agricultural Development; Grain Storage; Farm Mechanization | Digital Orthophotography |
| Animal Facilities | Dining Halls; Clubs; Restaurants |
| Anti-Terrorism/Force Protection | Dredging Studies and Design |
| Area Master Planning | Design & Planning Structured Parking Facilities |
| Auditoriums and Theaters | Detention Security Systems |
| Automation; Controls; Instrumentation | Disability / Special Needs |
| Barracks; Dormitories | Ecological and Archeological Investigations |
| Bridge Design: Bridges | Educational Facilities; Classrooms |
| Cartography | Electrical Studies and Design |
| Cemeteries (<i>Planning and Relocation</i>) | Electronics |
| Chemical Processing and Storage | Elevators; Escalators; People-Movers |
| Child Care/Development Facilities | Energy / Water Auditing Savings |
| Codes; Standards; Ordinances | Energy Conservation; New Energy Sources |
| Cold Storage; Refrigeration and Fast Freeze | Environmental Impact Studies, Assessments or Statements |
| Commercial Building (<i>Low Rise</i>); Shopping Centers | Fallout Shelters; Blast-Resistant Design |
| Community Facilities | Fire Protection |
| Communications Systems; TV; Microwave | Fisheries; Fish Ladders |
| Computer Facilities | Forensic Engineering |
| Conservation and Resource Management | Garages; Vehicles Maintenance Facilities; Parking |
| Construction Management | Gas Systems (<i>Propane; Natural, Etc.</i>) |
| Construction Surveying | Geodetic Surveying: Ground and Airborne |
| Corrosion Control; Cathodic Protection Electrolysis | Heating; Ventilating; Air Conditioning |
| Cost Estimating; Cost Engineering and Analysis; Parametric Costing; Forecasting | Highways; Streets; Airfield Paving; Parking Lots |
| Cryogenic Facilities | Historical Preservation |
| | Hospital and Medical Facilities |
| | Hotels; Motels |
| | <i>Housing (Residential, Multi-Family;</i> |



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Apartments; Condominiums)
Hotels; Motels
Hydraulics and Pneumatics
Hydrographic Surveying
Industrial Buildings; Manufacturing Plants
Industrial Processes; Quality Control
Industrial Waste Treatment
Intelligent Transportation Systems
Infrastructure
Irrigation; Drainage
Judicial and Courtroom Facilities
Laboratories; Medical Research Facilities
Land Surveying
Landscape Architecture
Libraries; Museums; Galleries
Lighting (*Interior; Display; Theater, Etc.*)
Lighting (*Exteriors; Streets; Memorials; Athletic Fields, Etc.*)
Labs - General
Labs – Research – Dry
Labs – Research – Wet
LEED Accredited A/E
LEED Independent 3rd Party Building Commissioning
Mapping Location/Addressing Systems
Materials Handling Systems; Conveyors; Sorters
Metallurgy
Materials Testing
Measurement / Verification / Conservation Water Consumption
Savings
Mining and Mineralogy
Medical Related
Modular Systems Design; Fabricated Structures or
Components
Mold Investigation
Museums
Nuclear Facilities; Nuclear Shielding
Office Buildings; Industrial Parks
Outdoor Recreation
Petroleum and Fuel (*Storage and Distribution*)
Photogrammetry
Pipelines (*Cross-Country - Liquid and Gas*)
Phase I Environmental
Prisons & Correctional Facilities
Plumbing and Piping Design
Prisons and Correctional Facilities
Product, Machine Equipment Design Pneumatic
Structures, Air-Support Buildings Power Generation,
Transmission, Distribution Public Safety Facilities
Radar; Sonar; Radio and Radar Telescopes
Radio Frequency Systems and Shielding's
Railroad; Rapid Transit
Recreation Facilities (*Parks, Marinas, Etc.*)
Refrigeration Plants/Systems
Rehabilitation (*Buildings; Structures; Facilities*)
Research Facilities
Resources Recovery; Recycling
Roof Infrared Imaging to Identify Water Leaks

Roofing
Safety Engineering; Accident Studies; OSHA Studies
Security Systems; Intruder and Smoke Detection
Seismic Designs and Studies
Sewage Collection, Treatment and Disposal
Soils and Geologic Studies; Foundations
Solar Energy Utilization
Solid Wastes; Incineration; Landfill
Special Environments; Clean Rooms, Etc.
Structural Design; Special Structures
Surveying; Platting; Mapping; Flood Plain Studies
Sustainable Design
Swimming Pools
Storm Water Handling and Facilities
Specifications Writing
Toxicology
Testing and Inspection Services
Traffic and Transportation Engineering
Topographic Surveying and Mapping
Towers (*Self-Supporting and Guyed Systems*)
Tunnels and Subways
Traffic Studies
Transportation
Urban renewals; Community Development
Utilities (*Gas and Steam*)
Value Analysis; Life-Cycle Costing
Warehouse and Depots
Water Resources; Hydrology; Ground Water
Water Supply; Treatment and Distribution
Wind Tunnels; Research/Testing Facilities Design
Waste Water Treatment Facility
Water Well Rehabilitation; Water Well Work
Zoning; Land Use Studies



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

1. **Annual Request for Qualifications**

a. FIRM (OR BRANCH OFFICE) NAME:	CDM Smith
b. FIRM (OR BRANCH OFFICE) STREET:	4835 East Cactus Road, Suite 360
c. FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85254
f. YEAR ESTABLISHED:	1979
(g1). OWNERSHIP -	Corporation
(g2). OWNERSHIP - SMALL BUSINESS STATUS:	Not Applicable
h. POINT OF CONTACT NAME AND TITLE:	Dusan Stanisic, P.E.
i. POINT OF CONTACT TELEPHONE NUMBER:	602-281-7921
j. POINT OF CONTACT E-MAIL ADDRESS:	stanisicd@cdmsmith.com
k. NAME OF FIRM (If block 1a is a branch office):	CDM Smith Inc.



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2. EMPLOYEES BY DISCIPLINE

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees - Firm	d. No. of Employees - Branch
Architect	P	31	2
CADD Technician	P	266	7
Civil Engineer	P	482	3
Construction Manager	P	193	0
Construction Inspector	P	241	1
Cost Engineer/Estimator	P	67	0
Electrical Engineer	P	135	7
Environmental Engineer	P	591	1
Environmental Scientist	P	243	1
Geographic Information System	P	97	0
Geological Engineer	P	107	0
Geologist	P	180	0
Hydraulic Engineer	P	121	0
Hydrologist	P	178	0
Mechanical Engineer	P	67	5
Sanitary Engineer	P	76	1
Structural Engineer	P	131	5
Technician/Analyst	P	510	5
Transportation Engineer	P	122	0
Other	P	1,639	2
Total		5,051	40



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

a. Approximate No. of Projects	b. Experience	c. Revenue Index Number (see below)
72	Automation; Controls; Instrumentation	8
83	Bridge Design; Bridges	8
7	Chemical Processing and Storage	7
5	Codes; Standards; Ordinances	4
36	Commercial Building (<i>Low Rise</i>); Shopping Centers	8
28	Computer Facilities	1
253	Construction Management	10
13	Dams (<i>Concrete; Arch</i>)	6
10	Dams (<i>Earth; Rock</i>); Dikes; Levees	6
3	Desalinization (<i>Process and Facilities</i>)	4
8	Design-Build – Preparation of Requests for Proposals	5
304	Electrical Studies and Design	8
24	Energy Conservation; New Energy Sources	7
263	Environmental Impact Studies, Assessments or Statements	8
188	Heating; Ventilating; Air Conditioning	6
7	Hydraulics and Pneumatics	6
39	Industrial Processes; Quality Control	7
71	Industrial Waste Treatment	7
30	Irrigation; Drainage	7
64	Landscape Architecture	6
89	Mining and Mineralogy	8
2	Pipelines (<i>Cross-Country – Liquid and Gas</i>)	3
700	Plumbing and Piping Design	9
1,167	Rehabilitation (<i>Buildings; Structures; Facilities</i>)	10
120	Safety Engineering; Accident Studies; OSHA Studies	6



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90	Seismic Designs and Studies	7
337	Sewage Collection, Treatment and Disposal	10
1,148	Soils and Geologic Studies; Foundations;	9
5	Solar Energy Utilization	6
178	Solid Wastes; Incineration; Landfill	8
488	Structural Design; Special Structures	8
25	Sustainable Design	8
119	Storm Water Handling and Facilities	9
330	Water Resources; Hydrology; Ground Water	10
256	Water Supply; Treatment and Distribution	10

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

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



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

a. NAME Dusan Stanisic, P.E	b. ROLE IN THIS CONTRACT Point of Contact Principal in Charge	c. YEARS EXPERIENCE	
		1. TOTAL 19	2. WITH CURRENT FIRM 1

d. LOCATION (*City and State*) **CDM Smith**, Phoenix, Arizona

e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) M.S. Mechanical Engineering, University of Arizona, 1996 B.S. Mechanical Engineering, University of Belgrade, 1992	f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer: Arizona, California, Colorado, Texas (Mechanical)
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g OTHER PROFESSIONAL QUALIFICATIONS (*Organizations, Awards, etc.*)
 AZ Water Association – Energy Management & Sustainability Committee

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) Gilbert, TP-01, TP-04, and TP-05 Sewer Metering Stations Improvements, Tempe, Arizona	(2) YEAR COMPLETED	
		Professional Service 2015	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Design of safety and operational improvements for four sewer metering stations including 1,500 – 2,500 cfm ventilation systems, explosion proof electrical systems, and custom flume covers to eliminate confined space permit requirements. Principal in Charge	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (<i>City and State</i>) Sewer Replacement Carver Ranch Estates, Tempe, Arizona	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Review of plans, specifications, and cost estimates for 2,600 LF of 8-inch sewer line in a gated, residential community. Principal in Charge,	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (<i>City and State</i>) Misc. Engineering Support, Heliae Development LLC, Gilbert, AZ	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Designed foundations for a .5 MG, 588'x 90'x 1.5' deep water recirculation tank. Designed 32'x 10'x 4.5' deep underground concrete open top vault, with process piping, ladders and guard rail. Principal in Charge,	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (<i>City and State</i>) Beazer Homes June Skies Development Sewer Evaluation, Phoenix, Arizona	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Design review of preliminary plans for the sanitary sewer plans for a 146 dwelling development in west Phoenix. Principal in Charge,	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) Syncarpha UofA Solar Thermal Systems Evaluation, Tucson Arizona	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Evaluated 950 kW Student Recreational Center solar thermal system. Principal in Charge,	<input checked="" type="checkbox"/>	Check if project performed with current firm



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

a. NAMERB Lee Arnon, AIA, AICP, NCARB Architect	b. ROLE IN THIS CONTRACT Architect	c. YEARS EXPERIENCE	
		1. TOTAL 30	2. WITH CURRENT FIRM 7



d. LOCATION (<i>City and State</i>) Phoenix, Arizona	f. PROFESSIONAL TRAINING – REGISTRATIONS Professional Registration: Arizona, New Mexico, Utah, Idaho, California, Washington, Texas (Architecture) AICP Certification Member, American Institute of Architects, National Council of Architectural Registration Boards, American Institute of Certified Planners
e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) Bachelor of Arts, Architecture, Cum Laude, Arizona State University, 1979	

g. OTHER PROFESSIONAL QUALIFICATIONS (*Organizations, Awards, etc.*)
 Community Development Director. City of Lake Havasu City, Community Development Department. In addition to leading the building, planning and code enforcement staff, Mr. Arnon served as project manager for municipal design and construction projects including the 35,000 SF City Hall; 42,000 SF Police Complex; 12,000 SF Regional Fire Training Facility; 56,000 SF Aquatic Center; 26,400 SF Bus Maintenance Facility; 1,200-acre BLM Sara Park regional park master-plan; 40-acre Rotary Park, lake-front, community park, ball-fields and recreation area.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) Joint Base Lewis-McChord Wastewater Treatment Plant, Tacoma, Washington	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE This on-going design-build project includes new administration building with control room and laboratory, headworks building, main process building, blower building, shop and storage buildings. The project utilizes the whole-building approach to design for energy conservation and sustainability. Project Architect	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (<i>City and State</i>) U.S. Army National Training Center at Ft. Irwin, California	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Served as the project architect for the Water Treatment and Distribution System. This large campus style water treatment facility included an administration and control building, main process building, chemical storage building, and treated water pump station building. The project was produced using 3D/4D design tool. Project Architect	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (<i>City and State</i>) San Dieguito Pump Station, Rancho Santa Fe Irrigation District; San Diego, California	(2) YEAR COMPLETED	
		Professional Services 2016	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE The San Dieguito Pump Station conveys raw water from the San Dieguito Reservoir to the Badger Water Filtration Plant through an existing 30-inch pipeline. The 2,500 square foot building houses the main pump room, electrical room and chemical storage room. The building was designed with integral color concrete block walls, steel beams, and metal roof deck. Project Architect	<input checked="" type="checkbox"/>	Check if project performed with current firm



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

a. NAME Leonel Almanzar, PhD, PE, SECB, DBIA Associate	b. ROLE IN THIS CONTRACT Civil Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 21	2. WITH CURRENT FIRM 8



d. LOCATION (<i>City and State</i>) Phoenix, Arizona	
e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) Ph.D. Civil Engineering, University of Puerto Rico, 1998 M.S., Civil Engineering, University of Puerto Rico, 1994 B.S., Civil Engineering, Technical Institute of Santo Domingo, 1990	PRPFESSIONAL TRAINING – REGISTRATIONS Professional Engineer: Arizona, Alabama, California, Dominican Republic, Florida, Massachusetts, North Carolina, Puerto Rico, South Carolina Civil/Structural SECB – Certified in the Practice of Structural Engineering DBIA – Design/Build Professional

h. OTHER PROFESSIONAL QUALIFICATIONS (*Organizations, Awards, etc.*)
 Structural Engineering Institute (SEI) – Fellow; ASCE - Fellow

H. RELEVANT PROJECTS		
1.	(1) TITLE AND LOCATION (<i>City and State</i>) Phase III Expansion of the Carlsbad Water Reclamation Facility (CWRF), Carlsbad, California.	(2) YEAR COMPLETED
		Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE The project involves design and construction of treatment facilities and equipment to expand the capacity with an additional 3.4 million gallon per day of disinfected tertiary recycled water. The project will also increase filtration reliability, enhance operational flexibility, and improve stored recycled water quality. Project Manager	<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION (<i>City and State</i>) Gilbert, TP-01, TP-04, and TP-05 Sewer Metering Stations Improvements, Tempe, Arizona	(2) YEAR COMPLETED
		Professional Services 2015
		Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Design of upgrades in the facility to remove the confined space classification of the facility, providing the required improvements to meet minimum OSHA requirements for occupied space, Project Manager	<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION (<i>City and State</i>) Joint Base Lewis-McChord (JBLM) Wastewater Treatment Plant, Tacoma, Washington	(2) YEAR COMPLETED
		Professional Services
		Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE On-going design of a new plant that will meet JBLM’s needs through 2030 and produce effluent water quality suitable for Class A reclaimed water use via nutrient removal, membrane filtration, and UV disinfection. The design will also accommodate a 50 percent future expansion. Deputy Project Manager	<input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION (<i>City and State</i>) Suffolk County Outfall Replacement Tunnel	(2) YEAR COMPLETED
		Professional Services 2015
		Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE During the segmental tunnel lining design of the project, 2D and 3D structural models were performed using finite element analysis and soil structure interaction. Lead Structural Engineer for Tunnel Design.	<input checked="" type="checkbox"/> Check if project performed with current firm



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100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007**

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

a. NAME Paul Taurasi, P.E., BCEE	b. ROLE IN THIS CONTRACT Civil Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 23	2. WITH CURRENT FIRM 23
d. LOCATION <i>(City and State)</i> CDM Smith Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> M.S. – Environmental Engineering, Northeastern University, 2000 B.S. – Civil Engineering, University of Massachusetts, 1993		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer: Arizona (Civil)	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Southeast Oklahoma Water Supply Project, Oklahoma City Water Utilities Trust (OCWUT)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE On-going design standards development and hydraulic modeling for the approximately 100 miles of 72-inch diameter transmission main that will transport raw water flow from the Atoka Reservoir to the City of Oklahoma City. Lead Design Engineer	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Fresh Water Delivery System, Rosemount Copper Company, Tucson, Arizona	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provided technical reviews for the design of a fresh water delivery system from well fields provided by another consultant. The design of this project was unique in that a 15 mile corridor had to be developed across a remote mountainous area to include a vehicle access roadway and a 20-inch diameter steel pipeline. In addition, four booster water pump stations each rated at 5,000 gpm had to be sited and designed within the pipeline corridor. Lead Technical Review Specialist	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Choctaw Storage and Pump Stations, City of Baton Rouge/East Baton Rouge Parish, Louisiana	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Designed the sewer system overflow facilities including three pump stations at 46 million gallons per day (mgd), 12 mgd and 5 mgd; 5 miles of forcemain pipeline ranging from 42 inch to 14 inch; and 26 million gallons in sewer system overflow storage. The facilities also included a collection system administration and facilities. Project Manager	<input checked="" type="checkbox"/>	Check if project performed with current firm



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

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
		1. TOTAL	2. WITH CURRENT FIRM
Steve Neil	Construction Manager	18	4



c. LOCATION <i>(City and State)</i>	Denver, Colorado
d. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i>	f. PROFESSIONAL TRAINING - REGISTRATIONS
Project Supervision Academy,	MSHA Part 46 Surface Miner
National Center for Construction Education and Research, Clemson University, 2004	OSHA 10-hour Safety
	Associated Builders & Contractors Blueprint Reading
	Crane Safety, Wire & Cable Inspection
	Trenching and Excavation
	Fall Protection
	All Terrain Forklift
	Confined Space Supervisor
	40-hour OSHA
	Competent Person
	Scaffold Inspection

g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Golden Vertex Moss Mine Rehabilitation Project, Bullhead City, Arizona	(2) YEAR COMPLETED	
		Professional Service 2015	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This \$2.7 million design build project consisted of building Heap Leach and Crusher facilities. Dirt work was extensive and required the moving of 180,000 cubic yards of material in a very short period of time. Mr. Neil worked closely with the client to provide schedule and budget updates. He also worked with our in house designers to make sure our field staff was able to work in the most efficient way possible. Construction Manager	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Petaluma Wastewater Treatment Facility, United States Coast Guard Training Facility Petaluma, California	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This \$37million design build project consisted of a headworks structure, equalization basin, secondary biological nutrient removal (BNR) treatment plant, a chlorination process, sludge drying beds, new and expanded storage ponds, culvert removal and new bridge installation, new agricultural irrigation system pipelines, new landscape irrigation system pipelines, wetland creation and enhancement and riparian enhancement, and tertiary treatment for effluent. Mr. Neil's responsibilities approvals, scheduling, and daily client interactions. Mr. Neil made sure that the project was closed out and all field work met CDM Smiths quality standards included contract scope change negotiations, subcontractor scheduling, and invoice review. Construction Manager	<input checked="" type="checkbox"/>	Check if project performed with current firm



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

e. NAME Brian Young, P.E	b. ROLE IN THIS CONTRACT Electrical Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 30	2. WITH CURRENT FIRM 8



d. LOCATION <i>(City and State)</i> Phoenix, Arizona	
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. – Electrical Engineering, Ohio State University, 1986	f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer: Arizona, New Mexico, California, Nevada, Montana, Idaho, Utah, California, Hawaii, Washington, Ohio (Electrical)
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>	

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Gilbert, TP-01, TP-04, and TP-05 Sewer Metering Stations Improvements, Tempe, Arizona	(2) YEAR COMPLETED
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Responsible for the on-going design and QA/QC of the renovation to these underground metering stations. Electrical equipment and systems, including power distribution, lighting, and instrumentation, were designed to conform to NFPA requirements for hazardous classified locations. Lead Electrical Engineer	Professional Service 2015
2.	(1) TITLE AND LOCATION <i>(City and State)</i> ASARCO Mission Mine Collection System and Packaged WWTP Design, Sahuarita, Arizona	(2) YEAR COMPLETED
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Power for the proposed treatment system was derived from an existing mine-owned overhead power line on the site. The line was extended to the treatment system location to a new power pole with pole hardware, a fusible cutout switch, lightning arrestors, transformer, and riser. New underground conduit was installed in concrete encased PVC conduits for the power feeder to the treatment system main disconnect switch. Lead Electrical Engineer	Professional Services 2015
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Rosemont Copper, Fresh Water Delivery System, Tucson, Arizona	(2) YEAR COMPLETED
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Designed a 138kV, 7.5MVA substation to supply power to a new booster pump station with medium-voltage motors. The project includes 3 miles of underground 35kV distribution and four medium-voltage booster pump stations to deliver water up a mountain with a 6000 foot grade change. Lead Electrical Engineer	Professional Services 2015
4.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Sparks and Reno, NV, Truckee Meadows Water Reclamation Facility, Various Projects, Sparks, Nevada	(2) YEAR COMPLETED
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Working on several on-going projects for this facility, including analyzing the existing power system and developing a new short-circuit, coordination, and arc flash studies. Designed new medium-voltage service and power distribution. Determined the protective device settings that minimized the arc flash hazard levels while maintaining proper coordination... Developed a detailed plan to implement standby power for the entire facility in stages. Lead Electrical Engineer	Professional Services



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

a. NAME Misti Burkman, P.E., BCEE	b. ROLE IN THIS CONTRACT Environmental Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 15	2. WITH CURRENT FIRM 15



d. LOCATION (<i>City and State</i>) Phoenix, Arizona	
e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) M.S. Environmental and Water Resources Engineering, 2000 B.S. Environmental Engineering and Applied Math, 1998	f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer: Arizona, Texas (Environmental)
g. OTHER PROFESSIONAL QUALIFICATIONS (<i>Organizations, Awards, etc.</i>) 40 Hour OSHA Hazardous Waste Training (2013) Board Certified Environmental Engineer, American Academy of Environmental Engineers	

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) Storm Water Compliance, Phoenix, Arizona	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE On-going implementation of the Storm Water Pollution Prevention Program for the three Phoenix airports: Sky Harbor International, Phoenix-Deer Valley, and Phoenix-Goodyear airports. For this project, she oversees annual and quarterly compliance inspections of designated tenant facilities Project Manager.	Professional Services	Construction (if applicable)
<input checked="" type="checkbox"/>		Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (<i>City and State</i>) Phoenix Airports Air Quality Conformity, Phoenix, Arizona	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE On-going air quality conformity analysis for construction projects at three airports operated by the City of Phoenix Aviation Department. Verification that air emissions are in conformity with the State Implementation Plan. Project Engineer	Professional Services	Construction (if applicable)
<input checked="" type="checkbox"/>		Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (<i>City and State</i>) Disinfection Improvements at the Southeast Water Reclamation Plant, Mesa, Arizona	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Conversion from using ultraviolet (UV) radiation for disinfection to hypochlorite. Project Manager	Professional Services 2015	Construction (if applicable)
<input checked="" type="checkbox"/>		Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (<i>City and State</i>) Thude Park Drainage Improvements, Chandler, Arizona	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Design of new 500 gpm pump station to transfer stormwater to SRP canal. The Park experiences nuisance drainage in the western area of the Thude Park drainage basin that was creating stagnant pools which could lead to vector issues. Project Manager	Professional Services 2015	Construction (if applicable)
<input checked="" type="checkbox"/>		Check if project performed with current firm	



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

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
		1. TOTAL	2. WITH CURRENT FIRM
Brian Munson	Environmental Scientist	37	4



d. LOCATION <i>(City and State)</i>	Phoenix, Arizona
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i>	f. PROFESSIONAL TRAINING - REGISTRATIONS
M.B.A. – General Business, University of Phoenix, Arizona, 1988	Groundwater Hydrology Seminar, Mesa College, 1986 hydrology and Sedimentology Seminar, University of Oklahoma, 1981
M.A. – Physical Geography and Geomorphology, University of Denver, Colorado, 1978	Scottsdale Leadership Program Graduate, 2003
B.A. – Physical Geography, SUNY at Binghamton, New York, 1975	

g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*
 Worked at the Arizona Department of Environmental Quality (ADEQ) as Water Quality Division Director, and was responsible for all water quality programs and integrating those programs with the federal EPA and the Arizona Department of Water Resources. Appointed Volunteer Member of City of Scottsdale Environmental Quality Advisory Board, 2003-2007. Mr. Munson served as an appointed volunteer member to this council and provided environmental advisement to the City Council. He was also the Board Chairman for 2 years. Mr. Munson also has taught university-level courses in environmental science, geology, statistics, basic math, and algebra in both in-class and on-line formats.

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Asarco Silver Bell Mammoth Wash Tailings Facility Aquifer Protection Permit Application, Marana, Arizona	2015	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Managed, Preparation, submittal, and completion of the application for an Aquifer Protection Permit (APP) for the new Asarco Silver Bell Mammoth Wash Tailings Facility. Duties included coordination with design engineer, attendance at pre-application meeting, preparation and submittal of application, preparation of responses to comments. Permit has been issued. Environmental Scientist	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	Asarco San Xavier Aquifer Protection Permit Application, Sahuarita, Arizona	2015	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Permitting and Regulatory Principal, Managed the completion of the (APP) permit application for the San Xavier portion of the Asarco Mission Mine. Required coordination with the Tojono Oodam Tribe, BLM, and Asarco. Completed both engineering and permitting activities. Environmental Scientist	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Golden Vertex Moss Mine Rehabilitation Project, Bullhead City, Arizona	2015	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Permitting and Regulatory Principal, Managed completion of the APP for Phase 1 of the Golden Vertex Moss Mine in Mohave County. Included providing design and construction management services. Environmental Scientist	<input checked="" type="checkbox"/>	Check if project performed with current firm



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

a. NAME Edward C. (Chuck) Bartee, P.E.	b. ROLE IN THIS CONTRACT Mechanical Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 27	2. WITH CURRENT FIRM 2.5



d. LOCATION <i>(City and State)</i> Phoenix, Arizona	
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. – Mechanical Engineering, Ohio State University, 1986	f. PROFESSIONAL TRAINING – REGISTRATIONS Professional Engineer: Arizona, California, Colorado, Illinois, Indiana, Iowa, Michigan, Ohio, Oklahoma, Pennsylvania, Virginia (Mechanical)
h. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> LEED AP Holds four (4) U.S. Patents	

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Gilbert, TP-01, TP-04, and TP-05 Sewer Metering Stations Improvements, Tempe, Arizona	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provided the design of the HVAC systems for the upgraded metering stations. Upgrades included covering the flumes and improving ventilation at three metering stations to improve safety and air quality for maintenance staff. Lead Mechanical Engineer	Professional Services 2015	Construction (if applicable)
<input checked="" type="checkbox"/>		Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Ventura Dewatering Equipment Replacement, Ventura, California	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Providing the design of the HVAC systems to serve the facilities where obsolete dewatering equipment was replaced with centrifuge type equipment. HVAC upgrades included new cooling units for the Electrical Room, new exhaust fans, and a positive pressure system for the Control Room. Mechanical Engineer	Professional Services 2016	Construction (if applicable)
<input checked="" type="checkbox"/>		Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> San Dieguito Pump Station, Rancho Santa Fe, California	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Design of the HVAC and Plumbing systems for a new water pump station in the Santa Fe Irrigation District. The project included rooftop cooling units for the Electrical Room and ventilation systems for the Pump Room and Chemical Room. The project also included a drainage system for the Pump Room and an emergency shower in the Chemical Room. Mechanical Engineer	Professional Services 2016	Construction (if applicable)
<input checked="" type="checkbox"/>		Check if project performed with current firm	



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a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
		1. TOTAL	2. WITH CURRENT FIRM
Robert Clinger, P.E., BCEE	Sanitary Engineer	44	29



d. LOCATION (<i>City and State</i>)	Phoenix, Arizona	
e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>)	f. PROFESSIONAL TRAINING – REGISTRATIONS	
M.S. – Civil Engineering, University of Arizona, 1970	Professional Engineer: Arizona, Virginia (Civil)	
B.S. – Civil Engineering, University of Arizona, 1969	Board Certified Environmental Engineer (BCEE), American Academy of Environmental Engineers and Scientists	
i. OTHER PROFESSIONAL QUALIFICATIONS (<i>Organizations, Awards, etc.</i>)		
Distinguished Service Award, Outstanding Engineering Design Construction Management Services and Project Cost Control, Hubert L. Mooney Advanced Wastewater Treatment Plant Expansion and Upgrade Program, March 1988 – May 1997		

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	City of Douglas WWTP Expansion	2016	
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Design of WWTP expansion to 3.1 mgd including surface aeration oxidation ditch system, 77-foot secondary clarifier, new RAS/WAS pump station and conversion of existing aeration basins to aerobic digesters. Project Engineer	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	Wastewater Gravity Collection System for the Bay Acres Colonia, Douglas, Arizona	2015	
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Design of 26,000 linear feet of 8-inch and 12-inch sewer main through streets in an existing subdivision. The project provides first time sewer service to 367 existing homes and 95 vacant lots, and will decommission all of the existing septic systems. Project Engineer	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	ASARCO Mission Mine Collection System and Packaged Wastewater Treatment Plant Design, Sahuarita, Arizona	2015	
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Review for the various design stages of this project, including the preliminary design report, and the 60 percent, and 90 percent reviews. The project involves a conversion from using ultraviolet (UV) for disinfection to hypochlorite. A new chlorine contact basin and chemical handling building will be constructed as part of this project. QA/QC Reviewer	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	Disinfection Improvements at the Southeast Water Reclamation Plant, Mesa, Arizona	2015	
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Led reviews for the various design stages of this project, including the preliminary design report, and the 60 percent, and 90 percent reviews. The project involves a conversion from using ultraviolet (UV) for disinfection to hypochlorite. A new chlorine contact basin and chemical handling building will be constructed as part of this project. QA/QC Review	<input checked="" type="checkbox"/>	Check if project performed with current firm



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

a. NAME Paul Blomberg	b. ROLE IN THIS CONTRACT Structural Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 36	2. WITH CURRENT FIRM 8



d. LOCATION <i>(City and State)</i> Phoenix, Arizona	
f. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> M.S., Civil Engineering, Purdue University, 1980 B.S., Civil Engineering, Purdue University, 1979	f. PROFESSIONAL TRAINING – REGISTRATIONS Professional Engineer: Arizona, Florida, California, Colorado, Idaho, Minnesota, New Mexico, Oregon, Utah, and Washington (Civil/Structural) FEMA/USACE Structures Specialist Arizona Task Force 1

g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*
 Mr. Blomberg is the structure specialist on Arizona’s FEMA/DHS Urban Search & Rescue Team. AZ-TF1 is one of 28 Federal Urban Search & Rescue teams across the U.S. as a component of the National Response Plan Emergency Support Function #9. The Arizona team is sponsored by the Phoenix Fire Department Special Operations Section. As a structure specialist, Mr. Blomberg is versed in the Incident Command System.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> U.S. Army Corps of Engineers, Joint Base Lewis McChord, Tacoma, Washington	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE On-going structural engineering and quality reviews. The project consists of a new headworks and screening facility, grit removal, primary clarification, Bardenpho Activated sludge treatment, secondary clarification, tertiary pressure membranes, UV, digesters, and dewatering facilities. The project also includes a LEED Silver Administration/Control Building and is being designed utilizing BIM. Structural Engineer	Professional Services	Construction (if applicable)
<input checked="" type="checkbox"/>		Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Greenhouse Foundation Design, Heliae Development LLC, Gilbert, Arizona	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Developed construction documents for the foundation of a new, 40,000 ft ² greenhouse. The foundation support system for the approximately 588’ long by 90’ wide by 15’ high greenhouse included gravity and lateral load foundation system to resist the greenhouse superstructure dead, live and wind loads, as well as seismic load effects. In addition, he completed structural design of a new concrete process vault adjacent to the greenhouse. Structural Engineer	Professional Services 2015	Construction (if applicable)
<input checked="" type="checkbox"/>		Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Mesa South East Water Reclamation Plant Disinfection Improvements, Mesa, Arizona	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Developed strategies to replace the existing UV disinfection system with a centralized sodium hypochlorite feed facility for disinfection and odor control including developing alternatives of reuse of existing facilities and construction of new facilities. Structural Engineer	Professional Services 2015	Construction (if applicable)
<input checked="" type="checkbox"/>		Check if project performed with current firm	



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

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

a. TITLE AND LOCATION <i>(City and State)</i> Phase III Expansion of the Carlsbad Water Reclamation Facility (CWRf), Carlsbad, California	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2017 (Est.)	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Terry Smith City of Carlsbad 5950 El Camino Real Carlsbad, CA 92008 760-603-7354 Terry.Smith@carlsbadca.gov	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$8.5 M	e. TOTAL COST OF PROJECT \$8.5 M
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

CDM Smith is providing design-build services for the \$8.5 million Phase III expansion of the Carlsbad Water Reclamation Facility (CWRf). Improving the reliability and expanding the capacity of the CWRf will allow the Carlsbad Municipal Water District (CMWD) to reliably provide T22 in irrigation water to existing and new customers and meet its goals for reduction in potable water demands. CMWD has selected a design-build delivery method for this project in order to best meet Prop 84/SRF funding milestones.

The project involves design and construction of treatment facilities and equipment to expand the capacity of the CWRf with an additional 3.4 million gallons per day (MGD) of disinfected tertiary recycled water that meets Title 22 of the California Administrative Code for "unrestricted non-potable reuse." The project is also intended to increase filtration reliability, enhance operational flexibility, and improve stored recycled water quality.

For the CWRf expansion, the CDM Smith team has proposed a semi-universal skid from H2O Innovation, which is capable of operating with membranes from Toray, Dow, or Scinor. It can also be adapted to use GE or Pall (Asahi) membranes. This approach will allow the greatest control over the membrane vendor for flexibility to adopt different membranes and new technology which might be available in the future.



UF Membrane Facility

CDM Smith proposed to use the Toray HFU-2020N membrane module as the base system offer. The Toray module is a mature and stable membrane product used in municipal potable water treatment applications with over 10 years of installed experience. SCADA integration is done by CDM Smith's I&C department, which is a fully integrated UL approved panel shop.

By utilizing our in-house I&C team, the integrators and panel builders are directly interfacing with the team during design which streamlines and expedites the startup and commissioning phase.



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

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

a. TITLE AND LOCATION <i>(City and State)</i> Gilbert, TP-01, TP-04, and TP-05 Sewer Metering Stations Improvements, Tempe, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(if applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Philip Brown City of Tempe 31 E 5 th Street Tempe, AZ 480-350-8476 Philip_brown@tempe.gov	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$217,000	e. TOTAL COST OF PROJECT \$217,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

These sewer metering stations are classified as permit required confined space facilities and are frequently accessed by three different SROG cities staff including Tempe, Scottsdale, and Phoenix to obtain the flow measurements and perform maintenance activities. This requires a high level of coordination and effort to provide a safe entry to staff to obtain the flow measurements and perform maintenance activities. Under the on-call contract with the City of Tempe, CDM Smith provided design drawings, specifications, and services during construction for the facility improvements so that they will no longer fall under confined space classification. New station entrances and stairways are being designed and constructed to improve access for maintenance and sample collection, and to provide safe entry for employees of SROG partner cities. The homes are being covered with aluminum planking's and new ventilation blowers and louvers are provided to maintain required air exchanges and pressure in the room. The modifications will aid in control of sanitary sewer nuisance odors in the vicinities of Priest Road and Rio Salado Parkway, Gilbert Road and Scottsdale Road, 48th Street and Southern Avenue, 48th Street and Rio Salado Parkway, and Priest Drive north of the Salt River related to existing wastewater flow metering stations at these locations



**TP01 Metering Station
Flume Room**



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

a. TITLE AND LOCATION <i>(City and State)</i> Mission WWTP Collection System	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(If applicable)</i> Expected 2016

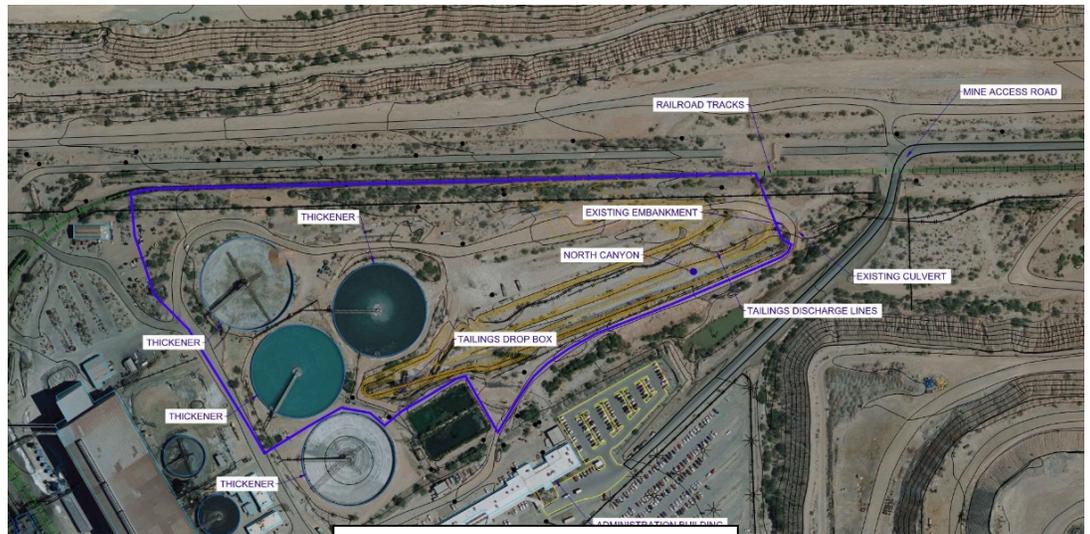
23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER ASARCO Tom Klempel Environmental Manager 201 West Pima Mine Road Sahuarita, Arizona 85629 520-648-2500	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$68,400	e. TOTAL COST OF PROJECT \$68,400
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and length of project)*

CDM Smith has completed the North Mill Package WWTP engineering design. The WWTP will treat sanitary and grey water effluent originating from the north mill and lab; administration and change house; warehouse, welding shop, electrical shop; and showers. The WWTP design anticipates a package plant to replace the north mill septic tank. CDM Smith will also design the collection system from the identified effluent discharge points to the WWTP.

CDM Smith will conduct the WWTP and collection system pre-construction activities using a two-phase approach. The phased approach will allow Asarco to expedite the selection and purchase of the packaged WWTP and associated equipment while awaiting final engineering design and regulatory approval of the collection system. CDM Smith prepared Requests for Proposals (RFPs), has contacted prospective contractors, will conduct a pre-bid walk (for the collection system, only, and will assemble hard bid cost estimates for pre-construction activities.



Site View of Mission North Mill



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

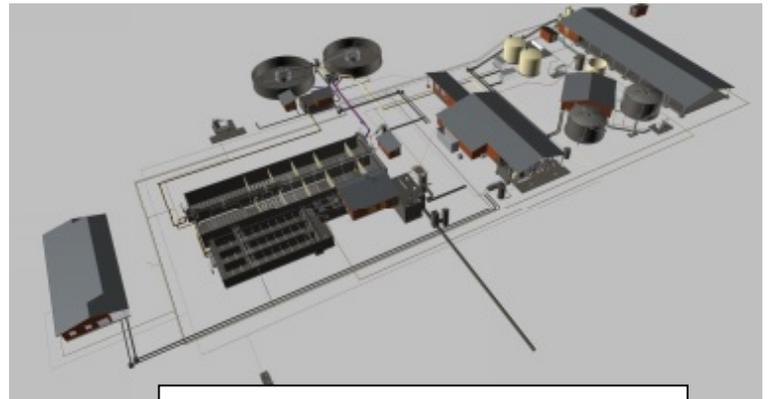
a. TITLE AND LOCATION <i>(City and State)</i> Joint Base Lewis-McChord Wastewater Treatment Plant, Tacoma, Washington	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES On-Going	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER US Army Corp of Engineers Seattle District 206-764-6752 Kenneth M. Weaver@usace.army.mil	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT Consultant Fee: \$8,000,000 Construction: \$78,900,000	e. TOTAL COST OF PROJECT \$86,900,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The JBLM project includes the design and construction of a WWTP to support a projected total population of 100,000 people, including biological nutrient removal (BNR), tertiary membrane system and ultraviolet (UV) disinfection. The JBLM WWTP has a design capacity of 4.4 million gallons per day (mgd) annual average flow for year 2030. The range of flows is 1.6 mgd minimum daily flow for 2015 to 12 mgd peak hourly flow for 2030. The plant design also considers a 50 percent increase for future plant expansion, which includes inter-process conveyance to meet ultimate future plant expansion and space allocated on the site for future process expansion. The effluent will be suitable for discharge to the Puget Sound and meeting the "Class A" water quality standards when operating as a reclamation facility.



JBLM Wastewater Tertiary Treatment Plant

Preliminary treatment processes include, influent pumping, screening, flow measurement and sampling, and aerated grit removal.

Primary treatment will include sedimentation, sludge and scum removal and pumping, and spill storage/return.

Biological treatment will include a four-stage Bardenpho process with supplemental carbon addition system for nitrogen removal followed by secondary clarification. Biological treatment is followed by fine straining and tertiary membrane filtration.

Disinfection of the tertiary membrane permeate will be through ultraviolet light system to achieve the Washington State reclamation standards for total coliform. Solids handling will include sludge thickening, anaerobic digestion, sludge storage and dewatering, generating Class "B" biosolids for reuse.



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

a. TITLE AND LOCATION <i>(City and State)</i> Pilot Testing, Design, and Construction Phase Services for 5 MGD Groundwater Reverse Osmosis	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Gila River Indian Community DeWayne J. Badonie 520-562-3343 Dewayne.badonie@gric.nsn.us	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$15 M	e. TOTAL COST OF PROJECT
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

CDM Smith was retained to evaluate treatment process options for a new centralized groundwater supply being developed by the Gila River Indian Community (GRIC) to serve the entire community in place of obsolete local systems. Treatment objectives included removal of arsenic, total dissolved solids (TDS), nitrate, and fluoride. CDM Smith performed a pilot study to develop process design parameters, detailed design, and demonstrate the feasibility of reverse osmosis (RO) to meet the community's water quality goals. CDM Smith then designed a full-scale groundwater treatment facility with 3.3-mgd skid capacity of RO plus a 1.7-mgd blend to produce a total of 5 mgd of high-quality finished water.

The facility is one of the largest groundwater RO plant in Arizona. The facility treats groundwater from three wells by blending permeate with the raw groundwater to maximize the capacity of the treatment system, as well as adjust the water quality back to drinking water standards. The treatment process consists of raw water feed pumps, pre-filtration, anti-scalant addition, RO treatment, post-treatment chemical feed facilities, blend water pump station, and finished water pump station. Approximately two miles of new water transmission mains were constructed to convey water to and from the site and out to existing facilities in the GRIC distribution system. CDM Smith performed an evaluation of brine disposal options and it was determined that for the specifics of this project, it would be acceptable to blend the brine into a much larger flow of irrigation water being used on fiber crops.



Groundwater Supply Pump Station

Facilities include a 12,000 square foot administration and maintenance building that houses the RO treatment equipment and provides operations and administrative space for GRIC staff. The facility also includes two 0.5-MG steel above-ground storage tanks for raw and finished water and four pump stations:

- Raw Water Pump Station: four 350-hp pumps, 2-mgd each at 200 psi
- Blend Water Pump Station: three 7.5-hp pumps, 0.85-mgd each at 15 psi
- Finished Water Pump Station: three 100-hp pumps, 2.5-mgd each at 50 psi (transfer to existing booster PS)
- Brine Pump Station: two 50-hp pumps, 0.7-mgd each at 50 psi

CDM Smith also prepared a water master plan for GRIC, which included a comprehensive evaluation of the community's numerous existing tank and booster station sites.



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6. ADDITIONAL INFORMATION

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

Established in 1979, our Phoenix office has a staff of 40 with a long a history of working with local communities. All of our proposed key personnel for this contract is local. CDM Smith’s Phoenix office is one of six of our state-of the art design centers which employ all architectural and engineering disciplines (civil and structural design, electrical and mechanical systems, process design, automation and instrumentation, drafting, and 3D modeling for each discipline). With staff from each discipline located in one office, CDM Smith can provide superior and cost-effective services. We design on advanced engineering platforms that match our clients’ requirements, including 3-D design for construction efficiency and long-term value. We also prepare reports, plans, specifications, and permits for planning and construction projects.

Our Phoenix office is supported by a network of professionals throughout the country and worldwide. Founded in 1947, CDM Smith is a world leader in the field of environmental and civil consulting, engineering and design, transportation, and construction services. With more than 5,000 staff in over 100 offices worldwide, CDM Smith focuses on planning, engineering, construction, and management. We have worked with hundreds of municipalities and agencies on a wide range of engineering projects, with a major focus on water/ wastewater treatment plants and collection/distribution systems.

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:	92%
b. Percentage of Total Work Attributable to Non-Government Work:	8%

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

Signature: *Dusan Stanisc* Date: December 18, 2015

Name: Dusan Stanisc Title: Principal