



Home of the Celebrated Jumping Frog



PREPARED FOR THE CITY OF ANGELS CAMP STATEMENT OF QUALIFICATIONS FOR ON-CALL ENGINEERING SERVICES

Angels Camp, California

APRIL 25, 2025

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El Dorado Hills 3840 El Dorado Hills Boulevard, Suite 301 El Dorado Hills, CA 95762 916.980.8228

www.LumosInc.com

April 25, 2025

Pam Caronogan, City Administrator City of Angels 200 Monte Verda, STEB Angels Camp, CA 95222

Subject: Statement of Qualifications for On-Call Engineering Services

Dear Ms. Caronogan and Members of the Selection Committee:

Aaron Brusatori and Lumos & Associates are committed to continue supporting your team through on-call civil, structural, environmental, survey, and geotechnical engineering services.

Lumos brings extensive experience in municipal engineering, currently serving as County Engineer for Alpine County, CA, and Eureka County, NV, as well as District Engineer for several General Improvement Districts, including Indian Hills GID, Gardnerville Ranchos GID, and the Eastern Sierra Community Service District/ Community Service Districts. Our services for these clients span sewer and water improvements, stormwater mitigation/studies, roadway rehabilitations, and development of Capital Improvement Plans.

Aaron Brusatori, P.E., will be the primary point-of-contact, Project Manager and acting City Engineer for this contract. Over the past three years, Aaron has provided engineering and operational support to the City of Angels on a wide range of projects. His familiarity with the City's General Plan, Design Standards, and day-to-day operations allows him to deliver practical, informed solutions tailored to your needs.

Aaron's background includes serving as Community Development Director, Public Works Director, and County Engineer for Amador County. He also currently serves as the contracted City Engineer for Fort Bragg. **The experience from these roles gives Aaron a unique perspective and strong qualifications to continue supporting Angels Camp in this capacity.**

Based locally, Aaron is readily available for site visits and meetings with operations and administrative staff, and takes a hands-on, collaborative approach to every project. His commitment to the City's success, supported by Lumos' diverse team of highly experienced engineers, makes our firm a strong partner for your ongoing engineering needs.

Our team's proven ability to anticipate project needs, communicate effectively, and coordinate with stakeholders and other agencies ensures consistency and quality throughout the life of each **project.** You can continue to expect the same level of dedicated service and clear communication that Aaron has demonstrated on previous City projects throughout the duration of this contract.

At Lumos, we take ownership of each project, maintain schedules and budgets, and prioritize doing it right for our clients, no matter the challenges encountered. This commitment has helped us build lasting relationships and deliver successful outcomes from design through construction.

If you have any questions, please do not hesitate to contact me directly at 916.980.8228 or via email at abrusatori@LumosInc.com.

Sincerely,

Im Brunati

Aaron Brusatori, P.E. Engineering Group Manager

Dan Stucky, P.E. Engineering Director



2. Firm Qualifications



Firm Profile

Lumos & Associates, Inc. (Lumos), is a regional, multidisciplinary firm that provides civil engineering (transportation, water, wastewater, etc.), surveying, structural engineering, geotechnical engineering, and construction services to clients throughout California and Nevada. We currently have a staff of over 140 professionals with offices in El Dorado Hills, Carson City, Reno, Fallon, Lake Tahoe, and Boise.

Lumos has an extensive history and resume of serving as a contract or on-call Engineer/Surveyor for municipal agencies like Angels Camp. Some of our recent clients include Bishop, Alpine County, Bishop Area Wastewater Authority, Mono County, Angels Camp (via sub contract), Fort Bragg, Eureka County, and others.

We have curated a team of experts to include WGA (currently provides City Surveying Services for Angels Camp), ECORP (our environmental expert), and WRF (providing local structural expertise). For more detailed information on our sub-consultants please refer to their individual firm brochures in Appendix A.

Lumos brings extensive City Engineer experience and specialized design expertise, making us wellqualified to continue serving the City of Angel's Camp across the project and service areas outlined below as well as any other needs the City may have.

- **Transportation:** road rehabilitation/reconstruction, pavement condition, roadway drainage, trails, and new roadways.
- **Water Systems:** well design and development, secondary water supply, pump stations, treatment, waterline replacement, hydraulic modeling, master planning, and CIP development.
- **Wastewater Systems:** collection system replacement, lift stations, treatment, modeling, master planning and CIP development.

The following sections provide examples of our experience in the areas of Transportation, Water Systems, and Wastewater Systems. Additionally, we have provided a summary of some of our current work as contract Engineers and Surveyors for other municipalities.



Municipal Contract Engineering / Surveying Project Experience

City of Angels Camp City Engineering Services | Angels Camp, CA

As City Engineer for the City of Angels Camp, Aaron Brusatori, P.E., leads capital improvement planning, supports community development, and serves as the City's primary liaison with Caltrans and other agencies. He manages plan reviews for grading, improvements, traffic control, and encroachment permits, recently completing these tasks for Habitat for Humanity's new affordable housing project. This effort involved a sewer lift station, stormwater quality features, Caltrans coordination, and planning entitlement review—culminating in approved plans now moving into construction.

Aaron plays a key role in municipal code updates, offering input on technical content and practical application. He regularly advises operations staff on issues such as street and drainage maintenance, wastewater spray field access, and emergency storm response.

Recently, Aaron helped resolve a groundwater issue on Greenhorn Creek Drive where seepage was damaging pavement and causing icy hazards. Working closely with City crews, they identified and cleared a blocked sub-drain using high-pressure hydro-jetting—restoring safe conditions and extending pavement life. Key Relevance:

- Public Works Operations Support
- Emergency Response
- Municipal Code Update
- Caltrans Coordination
- Plan Review
- Project Coordination



Habitat for Humanity Construction

Client Reference: Chris O'Flinn, Public Works Superintendent | 209.736.2181 | City of Angels Camp

City of Fort Bragg Acting City Engineer & City Surveyor | Fort Bragg, CA

Key Relevance:

- City Engineering Services
- Emergency Storm Response
- Storm Water Conveyance
- Coordination with Permitting Agencies
- Development Review
- Value Engineering



Brush Creek - Atmospheric River Culvert Failure

Lumos & Associates, through Acting City Engineer Aaron Brusatori, P.E., provides full-service city engineering and surveying support to the City of Fort Bragg. Lumos supports the City's transportation infrastructure by maintaining and updating the Pavement Management Database, evaluating street conditions, and recommending targeted strategies for preservation and reconstruction.

Our team has reviewed drainage studies for private developments to ensure compliance with City codes and ADA standards, and has led regulatory coordination for culvert replacement projects—preparing drainage calculations and assisting with permitting from the California Department of Fish and Wildlife, Army Corps of Engineers, and Regional Water Quality Control Board.

In our role as City Surveyor, we review parcel maps, lot line adjustments, and certificates of compliance, and provide field survey support for capital projects.

Client Reference: Chantell O'Neal, Assistant Director 707.961.2823 x133 | City of Fort Bragg



Alpine County, County Engineer | Alpine County, CA

Key Relevance:

- Grading Standards
- Pavement Inspection
- Pavement Management Database
- Pavement Maintenance Project Design
- Construction Observation



Diamond Valley & Hot Springs Rd. Erosion Control Culvert; Alpine County

Lumos provides consulting services as County Engineer on a contract basis for Alpine County. As County Engineer, Lumos reviews the improvement plans and technical reports for compliance with county development codes and engineering best practices. Lumos also provides design services for Alpine County for various county projects including culvert design (with hydrologic and hydraulic analyses), parking lot design, slope stabilization, and drainage assessments.

Lumos has also assisted with the drafting of the County grading standards. The County Engineer services work hand-in-hand with the review and approval of subdivision plats and parcel maps, to ensure that appropriate easements and/or rights-of-way were provided for drainage, roadway, and utility improvements.

Client Reference: Ethan Gray, Deputy Director | 530.694.2140 x451 | Alpine County Community Development

Eureka County, County Engineer | Eureka County, NV

Lumos has provided consulting services as County Engineer and County Surveyor on a contract basis to Eureka County since 1987. As County Engineer, Lumos attends County Commissioners meetings to provide guidance and direction on engineering matters. Lumos provides design services for public works projects, including street, drainage, water and sewer system, and airport improvements, as well as providing construction inspection and materials testing during construction.

During spring of 2023, Lumos provided assistance with emergency flooding response needs including field direction to the emergency response team hydrologic and hydraulic modeling to predict flood flows and potential areas of damage and assistance with response for emergency funding requests.

As the County Surveyor, Lumos provides review and signature for parcel maps, division of large parcels, reversionary maps, subdivision plats, and certificates of amendment all in accordance with the NRS and county codes. Combined, Lumos has provided engineering and surveying services on over 150 projects since 1987. Key Relevance:

- CIP Planning
- Water System Master Planning
- Wastewater Treatment
- Federal Funding Support
- Groundwater/Well Development
- Stormwater Emergency Response



Lumos' flood mitigation solutions during Eureka County's 2023 emergency event

Client Reference: Jebb Rowley, Public Works Director | 775.237.5372 | Eureka County Public Works



Transportation Project Experience

City of Fort Bragg 2025 Pavement Preservation & Rehabilitation | Fort Bragg, CA

Spring of 2024 Lumos was selected by the City of Fort Bragg to deliver the design of the 2025 Pavement Preservation and Rehabilitation Project. Our crews were dispatched to evaluate curb ramps for ADA compliance and to identify pavement failures. We evaluated more than 50 curb ramps for ADA compliance and identified with paint marks digout locations on 25 streets. Aerial imagery was collected to locate the painted digouts. The intersection of Laurel St and Whipple St was identified to resolve surface drainage issue a north-south subsurface bubbler was removed and the intersection was regraded to directing storm water flows to existing inlets. This solution provides ADA compliant access at all four corners of the intersection as well as a smooth vehicular transition on each leg of the intersection.

As a value-added service, we collected aerial imagery of all the streets in the City using fixed wing aircraft. The aerial imagery was used as the base for this project and has been used as reference to support the City on other projects addressed by separate contract. The project has an estimated construction cost of \$2,000,000 and is slated for construction summer of 2025. Key Relevance:

- StreetSaver Database Update and Maintenance
- ADA Curb Ramp Improvements
- Rapid Set Slurry Seal
- Structural Dig-outs



Aerial Survey Control

Client Reference: Chantell O'Neal, Assistant Director | 707.961.2823 x133 | City of Fort Bragg

Truckee River Legacy Trail | Truckee, CA

In collaboration with the Town of Truckee, Lumos has provided multi-phased engineering services for the Truckee River Legacy Trail. Our involvement spans Phases 2, 3A, 3B, the Brockway segment, and Phase 4A, with additional preliminary work completed for Phase 4B.

This regional, multi-use trail project traverses environmentally sensitive areas along the Truckee River, including steep terrain and developed neighborhoods, requiring extensive coordination with local, state, and federal agencies. Lumos performed a comprehensive scope, including preliminary design, alternatives analysis, final engineering, surveying, geotechnical investigations, and environmental permitting.

Our team led efforts in preparing floodplain exemption justifications for the Lahontan Regional Water Quality Control Board (LRWQCB), conducted drainage studies, and ensured compliance with CEQA, NEPA, Section 106 of the National Historic Preservation Act, and local planning guidelines. Phase 3B featured the design of a 148-foot clear-span pedestrian bridge over Martis Creek, while Phase 4A included complex trail alignments requiring retaining wall systems and multiple bridges.

Key Relevance:

- Trail Design
- Slope Stabilization
- Multi-Use Trail Bridge
- Sensitive Environment

Client Reference: Becky Bucar, Assistant Public Works Director | 530.582.7700 Town of Truckee



 Phase 3A Trail Segment
 Phase 4A Legacy Trail Bridge

 Lumos & Associates
 City of Angels On-Call Engineering Services



Phase 4A Trail Segment



Washoe Regional Transportation Commission (RTC) Preventative Maintenance Project 2005-2025 | Reno, NV



Kings Row Reconstruction Project, Phase 2

Key Relevance:

- Pavement Management
- Pavement Maintenance Design
- Annual Pavement Maintenance
- Multiple Stakeholders

The RTC, in cooperation with the City of Reno, City of Sparks, and Washoe County, developed a complete Pavement Preservation Program. Since 2005, Lumos has been providing pavement maintenance for roadway sections of the Cities and County. The annual maintenance includes survey, data collection, materials testing, construction inspection, and administration. The construction inspection and materials testing includes inspection/testing of patching, striping, crack seal, and slurry seal.

Lumos works with NDOT, RTC Ride, Washoe County School District, as well as emergency personnel, in weekly project meetings and communication of updated schedules to keep everyone appraised of the current and upcoming closures. Daily communication with all agencies is the key to the success of this program.

Client Reference: Jessica Dover, Project Manager | 775.335.1831 | Washoe County RTC

Markleeville Culvert Roadway Repair Project | Alpine County, CA

In early 2017, a major storm event severely damaged a key transportation link in Alpine County by washing out the access road and culvert serving the Markleeville sanitary sewer treatment plant. The resulting failure cut off operational access to the sanitary sewer treatment plant. Lumos was engaged to lead the project, which included:

- Design and construction of a new access road to restore connectivity to a critical public utility facility.
- Engineering an 8' x 4' reinforced concrete box culvert with upstream and downstream wing walls (see figure), including an integrated overflow weir to allow safe conveyance of high storm flows under the roadway.
- Applying riprap to armor roadway-adjacent slopes and protect infrastructure from future erosion and flow events.
- Delivering full design and construction oversight in a narrow, environmentally constrained right-of-way adjacent to a perennial creek.
- Implementing dewatering and managing regulatory approvals for in-channel work to enable construction within permitted guidelines.



Markleeville Culvert Design

Key Relevance:

- Stormwater Design
- Emergency Response
- Environmental Protection

In March 2018, less than a year after completion, another high-flow storm tested the improvements. The new culvert and access infrastructure performed as designed, maintaining full operational access to the sewer treatment plant during the event.

Client Reference: Ethan Gray, Deputy Director | 530.694.2140 x451 | Alpine County Community Development



Water Project Experience

Rancho Murieta Community Service District CIP | Rancho Murieta, CA

Lumos & Associates was tasked with developing a comprehensive Capital Improvement Plan (CIP) and conducting a Water and Wastewater Rate Study for the Rancho Murieta Community Services District (RMCSD). Utilizing site visits, and data analysis to assess current conditions and future needs the Lumos Team identified the necessary improvements and/or expansions to existing infrastructure. This project also involved projecting growth rates and evaluating design criteria to ensure compliance with regulatory standards.

Lumos also developed an infrastructure inventory, cataloging assets and estimating replacement costs. The team is also working to create a financial model that projects revenue and expenses, ensuring the financial health of the District's utility funds. This included calculating user rates, new development fees, and administrative fees, all while ensuring compliance with Proposition 218. The final deliverables included a detailed report and presentations to the RMCSD Board, along with assistance in public outreach on the CIP/Asset Inventory. The rate study component of the project is still to be completed.

Client Reference: Mimi Morris, General Manager | 916.354.3700 Rancho Murieta Community Service District

Key Relevance:

- CIP Development
- Infrastructure Inventory
- Domestic Water
- Sanitary Sewer



Rancho Murieta, CA

GBWC Well-8

Great Basin Water Company Well-8 Replacement Project | Spring Creek, NV

Lumos was contracted to provide professional engineering services for the project, which involved a hydrogeologic investigation and development of a constraint map identifying locations to drill several exploration test holes (Phase-1). Two test holes were permitted and drilled with the development of a technical memorandum recommending one site for a test well (Phase-2). In 2021, a test well was drilled to 1,000 feet deep, test pumped and analyzed, and a hydrologic report developed of the analysis of the data collected (Phase-3). Due to the initial arsenic concentration in the well being above the maximum contamination level (MCL), the well was hydraulically profiled to determine lithologic aguifer flow rates and arsenic concentrations in the well. It was determined that by strategically locating the pumping system in the well, the well was able to provide water with average arsenic concentrations below the MCL.

The client decided to operate the test well for a few years prior to drilling the full-sized production well (16" completion, 1200' deep). In 2023, Lumos designed and permitted a well house and discharge assembly plan set (Phase-4). The plan set was approved for construction, a contractor awarded, and the new facilities are currently being built.

Client Reference: James Eason, President | 775.432.3184 Great Basin Water Company



Key Relevance:

- Secondary Water Supply Well
- Water Quality Evaluation
 - Test Well

Lumos & Associates | City of Angels On-Call Engineering Services



GRGID South District Replacement Program (Phases 1 - 3) | Douglas County, NV

Lumos team laying piping



Key Relevance:

- Resilient Water Supply
- Waterline Replacement
- Construction Observation and Administration
- Materials Testing

Lumos is leading the multi-phased South District Pipeline Replacement Program for Gardnerville Ranchos GID, addressing aging and undersized water infrastructure. Across Phases 1–3, the project replaces over 65,000 linear feet of asbestos cement and Schedule 40 PVC mains with AWWA C900 PVC restrained joint pipeline. Lumos has delivered topographic surveying, base mapping, civil design, permitting, hydraulic modeling, and bid support. Our construction division has also provided construction management, inspection, and materials testing throughout.

In Phase 1, 17,000 feet of 12-inch backbone main was replaced. Phase 2A added 11,000 feet of 6- and 8-inch mains, with Phase 2B (20,000 feet) fully designed and permitted. Phase 3, now underway, includes design for nearly 30,000 feet of waterline, including hydrants, services, valves, and interconnections. Lumos is also preparing Drinking Water SRF applications and project documentation to support funding efforts. This program demonstrates our ability to manage complex, phased capital improvements while supporting clients with comprehensive water system design, regulatory compliance, and cost-conscious project delivery.

Client Reference: Greg Reed, District Manager | 775.265.2048 Gardnerville Ranchos General Improvement District

Lukins Well 5 Rehabilitation, Treatment, and Booster Station | South Lake Tahoe, CA

Since 2020, Lumos & Associates has provided on-call engineering, GIS, and surveying services to Lukins Brothers Water Company (LBWC), a private utility in South Lake Tahoe. Following PCE contamination detected in Wells 2 and 5, and a resulting Compliance Order from the Division of Drinking Water, Lumos supported LBWC in achieving regulatory compliance.

Key design services included the abandonment of Well 2, installation of a submersible vertical turbine pump in Well 5, construction of a housing structure for a new granular activated carbon (GAC) treatment system, and installation of a 98,000-gallon storage tank and four booster pumps. Each pump was equipped with variable frequency drives (VFDs) for improved operational control. Lumos managed planning, design, and construction support throughout the project.

Key Relevance:

- Secondary Water Supply
- Water Treatment
- Water Storage
- Booster Pumps



Lukins Water Tank

Client Reference: Jennifer Lukins, Owner | 530.541.2606 | Lukins Brothers Water Company, Inc.



Wastewater Project Experience

CCWD I&I Study | San Andreas, CA

CCWD contracted Lumos to perform an Inflow and Infiltration (I&I) study to identify vulnerable areas within the sewer collection system. To pinpoint the specific locations affected by I&I, the study included three key components: a desktop analysis, a flow monitoring study, and a condition assessment.

The desktop analysis involved evaluating and ranking each pipe and manhole to highlight those most at risk. The flow study involved installing flow meters in the La Contenta area to monitor seasonal flow variations.

Based on the results of the flow study, a condition assessment will be performed to identify structural deficiencies. By analyzing data from the desktop study, flow study, and condition assessment, the project provides CCWD with valuable tools for long-term utility planning. The outcome will support targeted improvements and maintenance strategies to address the challenges posed by the aging collection system.

Client Reference: Kevin Williams, District Engineer | 209.754.3184 Calaveras County Water District



I&I from a joint in the MH

Key Relevance:

- Calculation of Stormwater Inflow and Infiltration
- Identification of Strategic Repair Locations
- Reduced Treatment Following Storms

Amador Water Agency (AWA) Wastewater Master Plan Study | Sutter Creek, CA

Effluent ditch



Key Relevance:

- CIP Development
- Lift Stations
- Sewer Modeling
- Rate Structure Recommendations

AWA owns and operates multiple wastewater systems distributed across Amador County. These systems range from the upper mountain region down to the lower valley areas and include conventional gravity collection systems, Septic Tank Effluent Pumped (STEP) and Septic Tank Effluent Flow (STEF) systems, as well as multiple treatment and disposal systems. Additionally, AWA maintains 15 individual lift stations across its service area. AWA contracted with Lumos to prepare its first comprehensive wastewater master plan and develop a comprehensive Capital Improvement Plan (CIP) for near- and long-term system improvements.

As part of the master planning process, Lumos collected, compiled, and managed decades worth of available data from AWA including system flows, maintenance efforts, record drawings, billing summaries, and connection counts for each of the wastewater systems. Lumos also built new sewer models in a GIS platform for the conventional gravity systems, and provided mass balance and kinetic calculations for the STEF/STEP treatment systems as well as the partially mixed and aerated lagoon system. The Lumos team worked closely with a utility financial consultant to develop an economic analysis for the masterplan, specifically to help AWA identify how to approach funding the CIP developed in the masterplan. Through this teaming partnership, Lumos was also able to assist AWA with recommendations for rate structures and capacity fees. Our final masterplan and economic analysis were presented to the AWA Board of Directors in 2022 and was unanimously approved following the final presentation to the Board.

Client Reference: Brandt Cook, Resident Engineer | 209.257.5206 Amador Water Agency



2024 Reno Consolidated Sewer Rehabilitation Project | Reno, NV

New pipe installation



Key Relevance:

- Sewer Pipe Assessment
- System Rehabilitation Strategies
- Strategic Upsizing

Lumos is providing professional engineering, survey, and geotechnical services for the City's 2024 Consolidated Sewer Rehabilitation Project. This is for the repair, upsizing, or relocation of approximately 5,400 linear ft of sanitary sewer pipe, design and construction of new storm drain system, and manhole inspections and assessments. This will aid with flooding between the sewer and storm drain on Greenridge Drive and an area near Matley Ln.

Our team will be providing project management, topographical survey with rightof-way research, geotechnical investigation with soils investigation, preliminary design (including the collection, review, and incorporation of background data provided by local utility providers and City base maps overlain on a topographical survey; and review of existing sanitary sewer data, evaluation of manhole condition on Mill Street, and verification of laterals), construction documents, and bidding services.

Lumos' services will assist in the repair of ~2,500 linear ft of sanitary sewer pipe on 8th St. between Spokane St. and Sutro St., the upsizing and realignment of ~1,400 linear ft of sanitary pipe and modification of existing manhole on Plumas St. between S. McCarran Blvd and Manzanita Lane, the installation of new end of line manhole on Gordon Avenue, the design of 2 new storm drain system stubs in the Matley Lane/Mill St. area, the design of ~2,000 linear ft of storm drain in the Greenridge Drive area, the inspection and assessment of ~30 manholes on Mill St. between Kietzke Lane and Terminal Way, and the repair/upsizing/realignment of ~1,500 linear ft of sanitary pipe in the Maestro Dr. area between Virginia St. and Sierra Center Pkwy (this is a future separate deliverable).

Client Reference: Jon Simpson, Engineering Manager - Utilities | 775.689.2961 | City of Reno

CCWD Huckleberry Lift Station Improvements | San Andreas, CA

The Huckleberry Lift Station is one of, if not the most critical wastewater components in the Calaveras County Water District's (District) La Contenta service area. The lift station is located in an environmentally sensitive location next to Cosgrove Creek and is the main source of influent pumping to the La Contenta Wastewater Treatment Facility. The original station is now over 30 years old and requires replacement. Due to its critical nature, the existing lift station must remain in place and operational while the replacement station is constructed. Complicated projects like these require a dedicated team of technical experts that can communicate effectively and implement a winning design strategy for successful construction and operation of the new lift station for decades to come. Drone view of current Huckleberry Lift Station



Key Relevance:

- Critical Infrastructure
- Lift Station Replacement
- Staged Construction

Client Reference: Kevin Williams, District Engineer | 209.754.3184 | Calaveras County Water District



DBE Inclusion for City of Angels Camp Projects

As the contract engineer for the City of Angels Camp, it is imperative to integrate Disadvantaged Business Enterprises (DBEs) into our federally funded projects to comply with federal and state mandates, thereby ensuring the continuation of funding and adherence to legal requirements. The U.S. Department of Transportation's regulations, specifically Title 49 CFR Part 26, require recipients of federal assistance to establish DBE programs that promote participation of small, disadvantaged businesses in transportation-related contracts. Caltrans, aligning with these federal guidelines, has set an overall goal for federal projects.

To meet these obligations, our approach involves:

- Identifying DBE Opportunities: Analyzing each project to earmark specific tasks suitable for DBE participation, ensuring that contract goals are met in accordance with Caltrans' methodologies.
- Engaging Certified DBEs: Utilizing the California Unified Certification Program (CUCP) database to select DBEs certified by Caltrans, thereby guaranteeing that only bona fide firms contribute towards the City's DBE goals.
- Ensuring Compliance and Documentation: Maintaining meticulous records of DBE engagements, including solicitations and commitments, to demonstrate adherence to DBE requirements and facilitate transparent reporting.

By systematically incorporating DBEs into our project planning and execution, we not only fulfill mandatory compliance requirements but also secure essential funding, ensuring the successful delivery of infrastructure projects for the City of Angels Camp.

Conflicts of Interest

Lumos & Associates certifies that it has no conflicts of interest in connection with the performance of the services described in the RFQ.

Financial Management & Accounting

Lumos & Associates is fully compliant with 48 CFR Parts 16.301-3 and 31, and 49 CFR Part 18. We have experience successfully managing federally funded projects under these regulations, with established systems to ensure proper cost tracking, reporting, and accountability.



3. Project Team

The chart below represents the selected team members specifically performing services on projects from this on-call contract. In addition to our proposed team, Lumos has additional resources with the capacity to support the City's projects and goals. Resume bios for our key personnel are on the pages following this organizational chart.







EDUCATION BS, Civil Engineering, California Polytechnic State University, San Luis Obispo, 2000

PROFESSIONAL **LICENSURE & CERTIFICATIONS** Licensed Professional Engineer in CA #64384

INDUSTRY TENURE 24 years

LUMOS TENURE 1 year

CITY OF ANGEL'S CAMP CITY ENGINEER 2+ years

Aaron Brusatori, P.E.



City Engineer / Project Manager

With over 24 years of civil engineering experience, Aaron brings a wealth of planning, design, construction, and administration expertise for public and private infrastructure projects. He is our El Dorado Hills Group Manager and has previously served as Community Development Director, Public Works Director, Road Commissioner and County Engineer for Amador County, Aaron has a unique project history including transportation, utilities, private development, public administration and road maintenance and operations. Aaron currently serves as the City Engineer for Angels Camp.

Selected Relevant Projects

City of Fort Bragg Acting City Engineer & City Surveyor | Fort Bragg, CA

Through Acting City Engineer Aaron Brusatori, P.E., Lumos & Associates provides full-service city engineering and surveying support to the City of Fort Bragg. Lumos supports the City's transportation infrastructure by maintaining and updating the Pavement Management Database, evaluating street conditions, and recommending targeted strategies for preservation and reconstruction. Our team has reviewed drainage studies for private developments to ensure compliance with City codes and ADA standards, and has led regulatory coordination for culvert replacement projects—preparing drainage calculations and assisting with permitting from the California Department of Fish and Wildlife, Army Corps of Engineers, and Regional Water Quality Control Board. In our role as City Surveyor, we review parcel maps, lot line adjustments, and certificates of compliance, and provide field survey support for capital projects.

City of Fort Bragg 2025 Pavement Preservation & Rehabilitation Fort Bragg, CA

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Dan Stucky, P.E. | Quality Assurance & Quality Control

With nearly 19 years of experience in both public service and private consulting, Dan brings a sharp eye for detail and a broad understanding of water resource systems that make him exceptionally effective in a QA/QC role. As former City Engineer and Deputy Public Works Director for Carson City, he championed major initiatives—such as the City's first drainage manual, LID standards, and utility rate restructuring— demonstrating a strong commitment to quality, consistency, and data-driven decision-making. In private practice, Dan has served as a technical lead on a wide range of complex projects, from hydrologic and hydraulic analyses to storm water master planning and erosion control design. His comprehensive background allows him to critically review work across disciplines and ensure deliverables meet the highest standards of accuracy, constructibility, and long-term performance.

- ✓ Education: MS, Hydrology, University of Nevada, Reno, 2014 | BS, Civil Engineering, University of Kansas, 2006
- ✓ Licensed P.E. in CA & NV

Transportation



Judy Tortelli, P.E. | Construction Administration & Design Lead

Judy is a seasoned project manager and civil engineer with a strong record of successfully delivering complex transportation and infrastructure projects. She has led high-profile efforts for the Nevada Department of Transportation (NDOT), the Regional Transportation Commission (RTC), and the City of Reno, overseeing work ranging from stream restoration and bridge replacements to roadway and multimodal corridor improvements. With expertise in program management, environmental permitting, stakeholder coordination, and project delivery, Judy consistently guides projects to completion on time and within budget. Her collaborative leadership style and technical insight enable public agencies to achieve critical infrastructure goals while advancing safety, connectivity, and long-term community value.

✓ Education: BS, Computer Science, University of Nevada, Reno, 2002

✓ Licensed P.E. in CA



Cami Jackson, P.E. | Design Engineer

Cami is a Civil Engineering Project Manager with a strong background in both public works and private land development. Her expertise spans the full range of transportation and infrastructure design, including grading, utilities, water quality, roadway improvements, signage and striping, street lighting, and ADAcompliant streetscapes. With experience delivering projects in urban, suburban, and master-planned settings, she brings a balanced understanding of agency expectations and developer needs. Cami is known for her ability to navigate complex review processes, coordinate with diverse stakeholders, and deliver practical, well-integrated solutions that enhance mobility and community infrastructure.

✓ Education: BS, Civil Engineering, University of Nevada, Reno, 2011
 ✓ Licensed P.E. in CA, NV, & ID

Geotech & Construction



Brian Harer | Inspection & Testing Lead

Brian brings over 18 years of experience in construction inspection and materials testing, with a deep understanding of industry standards including ASTM, AASHTO, ACI, and regional specifications. As a Senior Construction Project Manager, he is skilled in ensuring quality assurance through every phase of construction, with a focus on compliance, risk mitigation, and clear communication. Brian's background spans transportation, water, wastewater, and public infrastructure projects, where he consistently delivers results that meet technical, budgetary, and schedule expectations. His leadership, technical knowledge, and field experience make him a trusted resource for managing inspection and testing efforts on complex civil projects.

✓ Certifications: NAQTC, ACI, ATTSA, OSHA





Mitch Burns, P.E., CEM | Geotechnical Lead

With over 34 years of geotechnical engineering experience, Mitch brings deep technical expertise and practical insight to every phase of project development. Serving as the geotechnical lead for this project, he will guide subsurface investigations, analysis, and design recommendations to ensure safe, resilient, and cost-effective solutions. Mitch's background spans a wide range of infrastructure types—including roads, pipelines, airports, and public facilities—across Nevada. As Lumos's Materials Engineering Manager, he oversees three AASHTO-certified laboratories and leads field testing and geotechnical reporting efforts. His specialties include slope stability, fault hazard assessments, and advanced roadway rehabilitation techniques such as full-depth reclamation, soil stabilization, and geosynthetic reinforcement.

✓ Education: MS and BS, Civil Engineering, University of Nevada, Reno
 ✓ Licensed P.E. in CA & NV

Water & Wastewater



Jonathan Lesperance, P.E. | Planning Lead

Jonathan has over 15 years of experience leading the design and delivery of municipal water and wastewater projects. His background includes pressure and gravity sewer systems, hydraulic modeling, master planning, lift stations, and treatment systems. With extensive experience in construction-phase engineering, Jonathan brings a strong focus on constructibility and cost-effective design. He oversees technical delivery across Lumos's Wastewater Discipline Focus Group, provides mentorship to junior staff, and serves as District Engineer for Gardnerville Ranchos GID and County Engineer for Eureka County, Nevada.

✓ Education: BS, Civil Engineering, Arizona State University, 2009

✓ Licensed P.E. in CA & NV



Mara Quiroga, P.E. | Water/Wastewater Lead

Mara brings nearly nine years of focused experience in water and wastewater engineering, with specialized expertise in hydraulic modeling and system planning. As the water/wastewater lead for this project, she will guide modeling and analysis efforts to ensure the proposed improvements are grounded in a clear understanding of system capacity, operational constraints, and long-term performance needs. Proficient in Bentley WaterCAD, Mara develops and maintains models for municipal systems throughout California and Nevada, using them to support master plans, identify deficiencies, and prioritize capital improvements. Her work has been instrumental in delivering major infrastructure projects, including system-wide pipeline replacements and integrated water master plans.

✓ Education: BS, Civil Engineering, University of Nevada, Reno, 2015
 ✓ Licensed P.E. in NV, CA, & ID



Chelsea Cluff, P.E. | Water/Wastewater Lead

Chelsea brings seven years of experience in water resources engineering, with a strong foundation in both system planning and design. As the water/wastewater lead for this project, she will guide the development of practical, implementation-focused solutions grounded in long-range system needs. Chelsea's background includes extensive work in hydraulic modeling and master planning for municipalities across California and Nevada, where she has supported efforts to improve resiliency, optimize system performance, and prioritize capital investments. Her ability to translate planning insights into actionable infrastructure projects has helped agencies streamline implementation and maximize return on investment.

É Education: BS, Civil Engineering, University of Nevada, Reno, 2017
É Licensed P.E. in NV





Tyler Sproule, P.G. | Hydrogeology Lead

Tyler brings eight years of specialized experience in water resources, with a strong focus on groundwater systems, well development, and subsurface investigations. As the hydrogeology lead for this project, he will oversee groundwater-related evaluations and provide expert guidance on well design, aquifer analysis, and system reliability. Tyler has led drilling, rehabilitation, and exploration efforts for public agencies and utilities across Nevada and Arizona, supporting both water supply planning and infrastructure development. His work includes groundwater modeling, pump and well design, and dewatering system implementation, along with basin-scale water budget assessments and subsurface geologic evaluations.

 ✓ Education: MS, Hydrology, New Mexico Institue of Mining & Technology, 2019 | BS, Earth & Planetary Science, University of California, Santa Cruz, 2014
 ✓ Licensed P.G. in CA

Survey



Andrew Chafer, P.L.S., CFedS | Survey Lead

With 25 years of professional surveying experience across California and Nevada, Andrew serves as the survey lead for this project, bringing a comprehensive understanding of both traditional and advanced geospatial practices. His background includes serving as a City Surveyor, where he provided map review and oversight, as well as hands-on expertise in topographic, boundary, and right-of-way mapping. Andrew has supported a wide range of projects—from residential and commercial developments to major public works—through precise construction staking and deformation monitoring of critical infrastructure such as dams and steel structures. He is also highly experienced in the application of advanced technologies, including UAS mapping, aerial and terrestrial LiDAR/3D scanning, and InSAR mapping.

✓ Education: BS, Civil Engineering, San Jose State University

✓ Licensed P.L.S. in CA & NV

Structural



Manish Khanal, P.E., S.E. | Structural Design

Manish Khanal is a skilled structural engineer with nine years of experience delivering thoughtful, technically sound solutions for public agency, institutional, and commercial building projects. His work reflects a deep understanding of complex structural systems, with particular strength in supporting critical infrastructure through seismic rehabilitation, fatigue design, and advanced structural analysis. Manish is committed to serving communities through safe, resilient, and efficient design, drawing on a broad portfolio that includes both new construction and retrofit efforts. His fluency in industry-standard tools—ranging from STAAD-Pro and ETABS to Revit and IDEA Statica—enables him to tackle challenging structural demands with precision and creativity.

- Education: MS, Civil Engineering (Structural), University of Houston, TX | BS, Civil Engineering, Tribhuvan University, Nepal
- ✓ Licensed P.E. in CA, NV, WA, ID, HI, & TX



Subconsultants



Amberly Morgan | Senior Environmental Planner

With over 15 years of experience, including 6 years at ECORP and 2 years in the public sector, Amberly specializes in CEQA and NEPA compliance. She has prepared and reviewed a wide range of environmental documents, including EIRs, IS/MNDs, CEs, PEARs, and FONSIs, along with supporting technical studies such as visual and community impact assessments, hydrology reports, and biological studies. Her project experience spans water infrastructure, transportation, parks, trails, renewable energy, and development, with extensive coordination on Caltrans projects.

✓ Education: BA, Environmental Studies, Minor in Biological Science, California State University, Sacramento

Kelly Hobbs | Senior Environmental Planner

Mr. Hobbs brings over 24 years of experience in environmental compliance, with specialized expertise in CEQA, NEPA, and Section 106. He has led environmental reviews and cultural resource studies for a wide range of infrastructure projects, both on and off the State Highway System. A former Caltrans leader, he managed statewide compliance programs and developed training to support consistent, efficient project delivery. His blend of technical knowledge and program-level experience makes him a valuable asset for navigating regulatory requirements and ensuring successful project outcomes.

✓ Education: BA, History, California State University, Fresno



Matt Ospital, P.E. | City Surveyor Coordination

Matt has 19 years of experience with the majority of his career spent in the public works realm. He will leverage his extensive design and survey experience to support the coordiantion of this project.

✓ Education: BS, Civil Engineering, California Polytechnic State University, San Luis Obispo

Mike Dorris | Surveyor & Inspector

Mike has over 35 years of construction experience in roadway projects from small to large in scope and size. He has extensive and hands-on experience with underground utilities, earthwork, grading, concrete, and retaining walls.



Terrence Weatherby, S.E. | Structural Reviews

Terry has over 42 years of experience in providing structural design for a wide variety of projects. He will utilize his extensive experience in working with public agencies in order to deliver support on this project. He has experience working with Angels Camp, and has successfully provided services for many local municipalities in the surrounding areas.

✓ Education: BS, Architectural Engineering, California Polytechnic State University, San Luis Obispo



4. Approach and Methodology

Approach to Working with the City of Angels Camp

At Lumos & Associates, we understand that the City of Angels Camp requires more than technical support it requires a trusted engineering partner who understands the nuances of a small, resource-conscious municipality. **Our team is ready to provide responsive, full-service engineering that prioritizes local needs, practical solutions, and long-term community benefit.**

Local Insight, Responsive Support

As the current City Engineer, Aaron Brusatori, P.E., brings a well-established rapport with City staff and a working knowledge of the City's infrastructure, operations, and standards. With deep experience in public works leadership, he understands how to operate within the City's structure and support its mission effectively. Our approach reflects this: **accessible**, **consistent**, **and proactive**. We work directly with operations teams, respond quickly to emerging issues, and deliver context-informed recommendations.

Hands-On Project Delivery

Lumos employs a Project Management Plan (PMP) for every task, ensuring alignment on scope, schedule, deliverables, and communication. We maintain clear lines of contact and provide regular check-ins, monthly status updates to Council, and staff support for day-to-day questions or strategic planning. Our approach includes:

- Quarterly coordination with Caltrans to stay aligned with Local Assistance Program Guidelines (LAPG) for federally funded work.
- Scope and budget clarity at the start of every project to support transparency and control.
- Emergency response readiness to address infrastructure failures or weather events with rapid mobilization and engineering support.

Tailored to a Small City's Structure

Angels Camp operates with a compact and dedicated

staff, so our services are designed to integrate seamlessly. We provide flexible support—from plan checks and permitting to grant management and capital planning. Our depth of staff means we can scale based on the City's needs, while keeping decision-making simple and personal.

We understand the importance of:

- Efficient collaboration with Public Works for water, wastewater, and roads.
- Supporting grant funding through application development, compliance, and reporting.
- Reviewing and updating City codes, standards, and CIP priorities.
- Bringing in targeted expertise in transportation, water, and wastewater engineering to meet technical demands and ensure regulatory compliance without overburdening City resources.

Quality, Consistency, and Accountability

Our quality assurance model includes a three-step review for all deliverables: internal design review, independent technical review, and project manager quality check. This process ensures technical excellence and minimizes revisions. All comments—internal or City-provided—are tracked in a Comment Resolution Matrix for transparency and closure.





Quality Assurance & Quality Control

Quality Assurance (QA): Getting It Right from the Start

At Lumos & Associates, we recognize that high-quality deliverables begin with a structured, deliberate approach to both quality assurance and quality control. Our QA/QC process is embedded into every phase of project delivery—ensuring accuracy, constructibility, and compliance with local, state, and federal standards.

Our quality assurance approach is designed to ensure that all projects are set up for success from the outset. This includes defining clear project scopes, assigning qualified staff, and using internal controls to monitor progress and decision-making throughout the project lifecycle.

- Project Management Plans (PMPs) serve as a foundation for every project, detailing scope, deliverables, contact roles, schedule, and budget expectations.
- Kick-off coordination ensures alignment between Lumos, City staff, stakeholders, and funding agencies.
- Consistent communication through check-ins, technical discussions, and council updates ensures that decisions are documented, shared, and implemented effectively.

Quality Control (QC): Technical Review and Documentation Integrity

Our quality control process emphasizes detailed, multi-tiered reviews that verify all project components are technically sound, internally consistent, and compliant with applicable standards.

Each submittal (30%, 60%, 90%, and Final) undergoes a three-phase review process:

- 1. Task Lead Review: The initial technical review conducted by the engineer or designer responsible for the work.
- Independent Technical Review (ITR): A peer-level review conducted by a qualified engineer not involved in the project's design. This ensures objectivity and provides a second layer of oversight.



3. Project Manager QA Review: The final review confirms accuracy, completeness, and responsiveness to prior comments.

To ensure transparency and accountability:

- All City and internal comments are logged in a Comment Resolution Matrix (CRM), which is updated with each submittal.
- The CRM allows both the City and our team to track how and when feedback was addressed, providing continuity and a clear record of decisions.
- Subconsultant deliverables are held to the same review standards, and their QA/QC efforts are coordinated through the Lumos Project Manager.

Deliverables You Can Trust

Our QA/QC program reduces rework, avoids permitting or construction delays, and enhances confidence in every document, drawing, or plan submitted. We pride ourselves on being proactive, thorough, and committed to the highest standards of public sector engineering.



Lumos Methodology for Transportation Projects

Challenges	Mitigation & Solutions			
Right-of-Way (ROW) Constraints	Early UAV surveys and base mapping.			
Irregular ROW widths: adjacent	Alignment design within existing ROW.			
parcel conflicts.	• Use of historical ROW documentation to reduce acquisition delays.			
Townin and Sland Stabilization	 Soil borings and geotechnical investigations. 			
Terrain and Slope Stabilization	 Slope stabilization using soil nail walls or MSE walls. 			
Steep terrain, erosion, slope failure.	 Integration of aesthetic treatments on visible walls (e.g. railroad ties). 			
Environmental Compliance	• Environmental Assessments (EA), scoping, and public notices.			
	 Minimization strategies for wetland impacts. 			
Wetlands, federal funding requirements (HUD/NEPA).	 Early stakeholder engagement to identify low-resistance permitting paths. 			
Utility Conflicts	Avoidance of high-voltage transmission lines.			
Litility poles in alignment, limited	Relocation of distribution lines where feasible.			
lighting infrastructure.	• Photometric lighting plans that comply with ADA.			
Drainage and Stormwater	• Use of hydrologic modeling and upgraded culverts.			
Flood-prope areas erosioin	• Incorporation of stabilized ditches, curbs, gutters, and LID systems.			
stormwater management	• Early integration of drainage design to inform roadway layout.			
Complete Streets Design	• Cross-section alternatives (bike lanes, sharrows, multi-use paths).			
	 Integration of traffic calming features (bulb-outs, RRFBs). 			
Lack of multi-modal facilities;	 Connectivity planning with adjacent corridors and 			
unsale crossings.	future roundabouts.			
Public Outreach and Stakeholder Engagement	 Public Information Plans (PIP) including presentations and online surveys. 			
Public concerns, HUD coordination	Coordination with advocacy groups, businesses, and residents.			
grant requirements.	• Use of outreach firms to conduct targeted engagement campaigns.			
	Landscape design that aligns with local identity (e.g. trail			
Aesthetics and Corridor Identity	monuments).			
Visual impact of infrastructure in	Retaining wall treatments, trailnead improvements, urban furniture.			
key gateways.	 Coordination with local attractions like museums for design continuity. 			
Project Management	On-call teams and rapid mobilization strategies.			
	 Critical path scheduling and integrated QA/QC reviews. 			
Tight timelines, federal	 Use of data-driven decisions and real-time adjustments 			
multi-agency collaboration.	during delivery.			



Lumos Methodology for Water Projects

Challenges	Mitigation & Solutions		
Project Kickoff and Coordination Misaligned expectations, unclear scope, stakeholder concerns.	 Kickoff meetings with owners, operators, and permitting agencies to align on goals. Early community engagement and transparent communication to build trust. Develop tools like Issue & Decision Tracking Logs, Value Engineering 		
	Logs, and Risk Registers.		
Data Collection and Validation Unknown site conditions, utility conflicts, outdated records.	 Topographic survey & LiDAR verification. Selective potholing for water and gas utilities. Site walks, sewer camera inspections, and GIS/as-build data verification. Hydraulic modeling using InfoWater or WaterCAD. Bathymetric surveys, geotechnical borings, and inflow/outflow tracking for reservoirs and dams. 		
Hydraulic Modeling and Master Planning Capacity shortfalls, regulatory non- compliance, aging infrastructure.	 Calibrate hydraulic models to simulate peak hour, fire flow, and average/max day demand. Analyze water age and disinfection byproduct (DBP) risks. Assess system resiliency under growth and drought scenarios. Driveritize CID projects and evaluate intertia expertunities. 		
	Prioritize CIP projects and evaluate intertie opportunities.		
Design Development Maintaining service during construction, environmental constraints.	 Develop Basis of Design Report (BODR) at 15–30%. Progressive design submittals: 30%, 60%, 90%, Final. Coordinate constructability, phasing, and shutdowns with O&M staff. Vendor coordination and equipment pre-procurement for treatment plants. Seepage/outlet structure modeling and FEMA/DSOD compliance for dams/reservoirs. 		
Permitting and Environmental Compliance Delays from regulatory approvals, environmental risks.	 Use dedicated permitting subconsultants for TRPA, CADDW, FEMA, etc. Coordinate early with federal and local agencies. Navigate FEMA EHP processes and conduct environmental/ cultural assessments. 		
Cost Modeling and Value Engineering Budget overruns, escalation, change orders.	 Submit progressive OPCC at 30%, 60%, 90% design. Conduct ongoing cost tracking and bi-monthly VE sessions. Use open-book estimating and independent cost estimators (ICE). Develop shared risk-based contingency plans. 		
Construction Support and Sequencing Maintaining service, field adaptation, delayed materials.	 Develop construction phasing plans for seamless tie-ins and testing. Issue Early Work Packages (EWP) to secure long-lead items. Coordinate with residents for service lateral tie-ins. Maintain on-site presence, weekly meetings, and adaptability. 		
Commissioning, Decommissioning, and Closeout Incomplete transitions, unclear O&M handoff.	 Develop detailed commissioning plans aligned with tie-ins. Ensure live connections before abandoning old systems. Provide as-built documentation, operator training, and O&M recommendations. 		



Methodology for Wastewater Projects

Challenges	Mitigation & Solutions		
Comprehensive Project Planning & Stakeholder Coordination	• Start with a kickoff meeting involving the city, utility companies, permitting agencies, and project partners.		
	 Develop a communication plan for weekly updates and decision tracking. 		
misalignment, missed constraints.	 Build in design contingencies for unknowns and allow scope refinement based on field data. 		
Thorough Site Investigation & Data Collection Unknown utilities, soil issues, misaligned designs, flooding risks.	 Topographic Survey: Detailed horizontal and vertical mapping, using field crews and drone support where needed. Manhole & Utility Mapping: Includes rim/invert elevations, flow directions, and lateral confirmations using CCTV. Potholing Coordination: Identify critical utility crossings to avoid costly conflicts; work with City-hired contractors. Geotechnical Investigation: Use test pits/borings to assess trench stability, pipe bedding, corrosion, and percolation for storm/ sewer structures. Stormwater Evaluation: Identify flood-prone areas and size storm drain systems accordingly. 		
Preliminary Engineering & Alternatives Analysis Selecting cost-effective, feasible solutions; meeting future capacity needs	 Assess repair vs. replacement based on existing conditions. Evaluate options for upsizing, rerouting, or new alignments when capacity or grade issues arise. Incorporate bypass pumping plans to maintain sewer service during construction. For pump stations or treatment: Simple designs with redundancy (e.g., duty/standby pumps) Screening and pretreatment for high-strength or unpreditable flows Pond lining, monitoring wells, and effluent disposal upgrades. 		
Detailed Design and Phased Implementation	 Develop plans in 30% → 60% → 90% → Final stages with review meetings. Break complex projects into constructible phases. 		
Construction disruptions, environmental impacts, flood risk, cost overruns	 Retain existing elements where beneficial. Integrate odorous flow controls, flood protection features, and emergency storage. 		
Permitting and Compliance Regulatory delays, environmental violations	 Early coordination with City and State agencies. Account for FEMA flood zones, AIS requirements, and NPDES permits. 		
Cost Estimation and Budget Control Budget overruns, underestimation, funding gaps	 Provide Class 3 OPCC at 30% design. Refine with ICE support at 90% and Final design. Use accurate quantities, vendor quotes, and local unit costs. Track cost implications via design contingency fund. 		



Challenges	Mitigation & Solutions
Bidding Support & Construction Services Misinterpretation of design, scope gaps, inefficient execution	 Provide technical Q&A support during bidding. Issue addenda and assist with bid evaluation. During construction: Respond to RFIs Review submittals and bypass plans Coordinate inspections and as-built documentation
	- Observe critical phases like pond lining and lift station cut-overs.
Closeout & Post-Construction	 Deliver final record drawings, digitally and signed/sealed. Conduct training or handoff for City operators. Document design decisions material choices and deviations from
undocumented changes	original plans.

5. Compliance with Federal Procurement Requirements

Lumos & Associates complies with all applicable federal procurement requirements, as shown in the following forms.

Unique Entity ID (UEI)

Contractors and sub-contractors need to have a Unique ID (12-charater alphanumeric ID assigned to an entity by SAM.gov) for ease of verification they are not debarred from working on projects with federal funding. SAM registration must be completed and valid to execute the Contract. This is in addition to assuring they are properly licensed by the Nevada State Contractor's Board.

The unique entity identifier used in SAM.gov has changed. On April 4, 2022, the unique entity identifier used across the federal government changed from the DUNS Number to the Unique Entity ID (generated by SAM.gov).

- The Unique Entity ID is a 12-character alphanumeric ID assigned to an entity by SAM.gov.
- As part of this transition, the DUNS Number has been removed from SAM.gov.
- Entity registration, searching, and data entry in SAM.gov now require use of the new Unique Entity ID.
- Existing registered entities can find their Unique Entity ID by following the steps here.
- New entities can get their Unique Entity ID at SAM.gov and, if required, complete an entity registration.

Enter Prime Contractor UEI Number: WG9KPQRE5683

CERTIFICATION REQUIRED BY SECTION 1352 OF TITLE 31, UNITED STATES CODE

RESTRICTIONS OF LOBBYING USING APPROPRIATED FEDERAL FUNDS

The undersigned certifies, to the best of his or her knowledge and belief that:

(1) No Federal appropriate funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with <u>this</u> Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Timothy Russell

Name (please type or print)

Vune

Signature

VP of Strategic Partnerships

Title

INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether sub-awardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or material change to a previous filing, pursuant to title 31 U.S.C. section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a covered Federal action. Use the SF-LLL-A Continuation Sheet for additional information if the space on the form is inadequate. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

- 1. Identify the type of covered Federal action for which lobbying activity in and/or has been secured to influence the outcome of a covered Federal action.
- 2. Identify the status of the covered Federal action.
- 3. Identify the appropriate classification of this report. If this is a follow up report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last previously submitted report by this reporting entity for this covered Federal action.
- 4. Enter the full name, address, city, state and zip code of the reporting entity. Include Congressional District, if known. Check the appropriate classification of the reporting entity that designates if it is, or expects to be, a prime or sub-award recipient. Identify the tier of the sub-awardee, e.g., the first sub-awardee of the prime is the 1st tier. Sub-awards include but are not limited to subcontracts, sub-grants and contract awards under grants.
- 5. If the organization filing the report in item 4 checks "Sub-awardee", then enter the full name, address, city, state and zip code of the prime Federal recipient. Include Congressional District, if known.
- 6. Enter the name of the Federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.
- 7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans, and loan commitments.
- 8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number; Invitation for Bid (IFB) number; grant announcement number; the contract, grant, or loan award number; the application/proposal control number assigned by the Federal agency). Include prefixes, e.g., "RFP- DE-90-001."
- 9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitment for the prime entity identified in item 4 or 5.
- 10. (a) Enter the full name, address, city, state and zip code of the lobbying entity engaged by the reporting entity identified in item 4 to influence the covered Federal action.

(b) Enter the full names of the individual(s) performing services, and include full address if different from 10 (a). Enter Last Name, first Name, and Middle Initial (MI).

- 11. Enter the amount of compensation paid or reasonably expected to be paid by the reporting entity (item 4) to the lobbying entity (item 10). Indicate whether the payment has been made (actual) or will be made (planned). Check all boxes that apply. It this is a material change report, enter the cumulative amount of payment made or planned to be made.
- 12 Check the appropriate box(es). Check all boxes that apply. If payment is made through an in-kind contribution, specify the nature and value of the in-kind payment.
- 13. Check the appropriate box(es). Check all boxes that apply. If other, specify nature.
- 14. Provide a specific and detailed description of the services that the lobbyist has performed, or will be expected to perform, and the date(s) of any services rendered. Include all preparatory and related activity, not just time spent in actual contact with Federal officials. Identify the Federal officials. Identify the Federal officials. Identify the Federal officials. Identify the rederal officials. Identif
- 15. Check whether or not a SF-LL-A Continuation Sheet(s) is attached.
- 16. The certifying official shall sign and date the form, print his/her name, title, and telephone number.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington, D.C. 20503.

1. Type of Federal Actions:	2. Status of Feder	al Action:	3 Report Type	
□ a. contract	a. bid/offer/application		□ a. initial filing □ b. material change	
☐ c. cooperative agreement	☐ d. post-award			
☐ d. loan ☐ e. loan guarantee			yearquarter	
t. Ioan insurance			date of last report	
4. Name and Address of Reporting Ent	ty:	5. If Reporting Entity in No. 4 is Sub-awardee, Enter Name and Address of Prime:		
Tier, <i>if</i> 1	known:			
Congressional District. <i>if</i> known:		Congressional District if known		
6. Federal Department/Agency:		7. Federal Program Name/Description:		
		CFDA Number, <i>if</i> applicable:		
8. Federal Action Number, <i>if</i> know:		9. Award Amount, <i>if</i> known: \$		
10. a. Name and Address of Lobbying Entity		b. Individuals Performing Services (including address if		
(if individual, last name, first name, MI):		аптегепt from №. 10a) (last name, first name, MI):		
(attach Continuation Sheet(s) SF-LLL-A, if	necessary)	(att	ach Continuation Sheet(s) SF-LLL-A, if necessary)	
11. Amount of Payment (check all that apply)	:	13. Type of Pay	ment (check all that apply):	
\$ actual D planned		a. retainer		
12. Form of Payment (check all that apply):				
☐a. cash		d. contingent fee		
b. in-kind; specify: nature value		e. deferred		
		L f. other; specify:		
14. Brief Description of Services Performed or to be Performed and Date(s) of Service, including officer(s), employee(s), or Member(s) contacted, for Payment indicated in Item 11:				
15. Continuation Sheet(s) SF-LLL-A atta	ached: Ves	No	/)	
16. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.		Signature:		
		Print Name:		
		Title:		
		Telephone No.:	Date:	
Federal Use Only:			Authorized for Local Reproduction Standard Form - LLL	

AFFIDAVIT REQUIRED UNDER 23 USC SECTION 112(c) AND 2 CFR PARTS 180 AND 1200 - SUSPENSION OR DEBARMENT

STATE OF Nevada

COUNTY OF

I, <u>Timothy Russell</u> (Name of party signing this affidavit and the Proposal Form) <u>VP of Strategic Partnerships</u> (title). being duly sworn do depose and say: That <u>Lumos & Associates</u> (name of person, firm, association, or corporation) has not, either directly or indirectly, entered into agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this contract; and further that, except as noted below to the best of knowledge, the above named and its principals:

- (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency:
- (b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgement rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public or private agreement or transaction; violation of Federal or State antitrust statutes, including those proscribing price fixing between competitors, allocation of customers between competitors, and bid rigging; commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, receiving stolen property, making false claims, or obstruction of justice; commission of any other offense indicating a lack of business integrity or business honesty that seriously and directly affects your present responsibility;
- (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (b) of this certification; and
- (d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

day of HDr

(Insert Exceptions, attach additional sheets)

The above exceptions will not necessarily result in denial of award, but will be considered in determining bidder responsibility and whether or not the Department will enter into contract with the party. For any exception noted, indicate on an attached sheet to whom it applies, initiating agency, and dates of action. Providing false information may result in criminal prosecution or administrative sanctions. The failure to furnish this affidavit and required exceptions if any shall disqualify the party.

VP of Strategic Partnerships Title

Sworn to before me this

20 ZS

(SEAL)



Notary Public, Judge or other Official



6. Qualifications and References

CITY OF ANGELS CAMP

Chris O'Flinn | Public Works Superintendent Phone: 209.736.2181 Email: chrisoflinn@angelscamp.gov

CITY OF ANGELS CAMP

Amy Augustine, AICP | Contract City Planner Phone: 209.743.2323 Email: planning@angelscamp.gov

Project: Habitat for Humanity Subdivision Review & City Engineer Dates: 2024 - Current

GARDNERVILLE RANCHOS GENERAL IMPROVEMENT DISTRICT

Greg Reed | District Manager Phone: 775.265.2048 Email: agreed@grgid.com

Project: South District Pipeline Replacement Program (Phase 1-3) Dates: 2021 - Current

ALPINE COUNTY COMMUNITY DEVELOPMENT

Ethan Gray | Deputy Director Phone: 530.694.2140 x451 Email: egray@alpinecountyca.gov

Project: Markleeville Culvert Repair Project Dates: Jan. 2018 - Jan. 2021

EUREKA COUNTY PUBLIC WORKS

Jebb Rowley | Public Works Director Phone: 775.237.5372 Email: jrowley@eurekacountynv.gov

Project: Eureka County Emergency Flood Response & County Engineer Dates: 1980s - Current (County Engineer), 2023 (Emergency Flood Response)

CITY OF FORT BRAGG

Chantell O'Neal | Assistant Director; Engineering Division Phone: 707.961.2823 x133 Email: coneal@fortbragg.com

Project: On-Call Engineering and Surveying Services Dates: 2024 - Current

AMADOR WATER AGENCY

Brandt Cook | Resident Engineer Phone: 209.257.5206 Email: bcook@amadorwater.org

Project: Wastewater Master Plan Dates: July 2021 - April 2023



7. Cost Proposal

Engineering	Per Hour
Director	\$330
Group Manager	315
Senior Project Manager – Special Projects	285
Assistant / Project / Senior Project Manager	240/270/285
Staff / Project / Senior Hydrogeologist	215/230/240
Staff / Project / Senior Engineer	220/230/245
Assistant / Project / Senior Project Coordinator	170/210/225
Project / Senior Project Designer	190/200
Engineering Technician I / II / III	120/160/175
Construction	Per Hour
Director	\$330
Materials Engineering Manager	285
Assistant / Project / Senior Project Manager	240/270/280
Staff / Project / Senior Geotechnical Engineer	220/230/245
Construction Services Supervisor / Engineer	195/210
Assistant / Project / Senior Project Coordinator	170/210/225
Geotechnician	190
Inspector / Senior Inspector (includes nuclear gauge)	180/190
Construction Technician I / II / III	145/155/165
Materials Technician I / II / III (includes nuclear gauge)	115/145/155
Administrative Technician	105/115/125
Surveying	Per Hour
Director	\$330
Group Manager	315
Assistant / Project / Senior Project Manager	240/270/280
Staff / Project / Senior Surveyor	220/230/245
Assistant / Project / Senior Project Coordinator	170/210/225
Photogrammetrist / Photogrammetry Manager	170/205
GIS Analyst	170
Surveying Technician I / II / III	120/160/175
Party Chief	210
Administrative & Other Services	Per Hour
Administrative Support	\$145
Copy & Print Services	Cost + 15%
Mileage (per mile)	0.90

• Fees for prevailing wage rate projects are available upon request.

- Map filing, checking, consulting, and other fees paid on behalf of the client shall be billed at cost plus fifteen percent (15%).
- Overtime hours will be billed at 1.5 times the standard rate where applicable.
- Survey and Field crew billing rates include standard field survey equipment and truck up to 30 mile radius, after which mileage rates apply
- Fees for depositions and testimony will be billed at two (2) times the standard billing rates

*2025 rates shown above - 2026 rates will be locked at 3-5% increase from 2025 rates.



8. Contract Comments

Lumos & Associates does not have any objections or concerns relative to the Terms and Conditions of the City's sample contract attached to the RFQ.



Carson City • El Dorado Hills • Fallon • Lake Tahoe • Reno • Boise

El Dorado Hills 3840 El Dorado Hills Boulevard, Suite 301 El Dorado Hills, CA 95762 916.980.8228

www.LumosInc.com