PROPOSAL FOR MEDICAL MARIJUANA FACILITIES, LAND USE ENTITLEMENT, DEVELOPMENT REVIEW & BUILDING CONSULTANT

Submitted To:

CITY OF NEEDLES
City Clerk
817 Third Street
Needles, CA 92363

Submittal Date:
MAY 9, 2016

Submitted By:

CASC ENGINEERING AND CONSULTING
Adam Rush, AICP
77567 Country Club Dr., Ste 211
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(760) 259-0108 Ext. 5370
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CASC
Engineering and Consulting

77567 Country Club Drive, Suite 211
Palm Desert, CA 92211
(760) 259-0108 ext. 5370

May 9, 2016

Rick Daniels, City Manager
817 Third Street
Needles, CA 92363
Office: (760) 326-2113, Ext. 313

RE: PROPOSAL TO PROVIDE ON-CALL ENGINEERING, SURVEY & LAND USE CONTRACT SERVICES

Dear Mr. Daniels,

CASC Engineering and Consulting, Inc. (CASC) is pleased to submit our proposal to provide On-Call Engineering, Survey & Land Use Contract Services to the City of Needles. The enclosed proposal highlights CASC's background and extensive experience relevant to the services requested by the City.

CASC, a home-grown product of southern California, was established in February, 1993 and has been providing professional services throughout California for over 23 years. Our land use, planning, environmental, engineering, water quality and survey departments will serve the City of Needles from our Palm Desert office. As a brief example, CASC has provided planning, environmental, engineering, survey, and renewable energy consultation services for several Southern California agencies including (partial list):

- City of Needles
- County of Imperial
- Imperial Irrigation District
- County of Riverside TLMA
- Coachella Valley Water District
- City of Banning
- City of El Centro
- Coachella Valley Housing Coalition
- La Quinta
- County of Riverside Flood Control
- County of Riverside EDA
- City of Desert Hot Springs
- City of Colton
- County of San Bernardino
- Caltrans
- City of San Bernardino
- City of Los Angeles DPW
- City of Redlands
- City of Rancho Mirage
- City of Temecula
- City of Hemet

Our firm's proposed Project Manager and key point of contact for this project is Adam Rush, AICP. Adam has 13 years of CEQA experience and is an APA Certified Planner. Mr. Rush is familiar with both the regional and municipal planning processes, the state CEQA Statutes and Guidelines and has personally drafted hundreds of Initial Studies and wrote several EIRs. In addition, Mr. Glenn Budd will lead our engineering and plan check assistance for the City of Needles. Mr. Budd brings 33 years of land use experience.

If you have any questions our Director of Planning, Adam Rush, AICP, may be reached by phone at (760) 259-0108 ext. 5370 or by email at arush@cascinc.com.

Sincerely,

CASC ENGINEERING AND CONSULTING

Adam Rush
Director of Planning
2016-0094 ar/cw

4A. COMPANY OVERVIEW

CASC Engineering and Consulting, Inc. (CASC), a California S corporation, was established in 1993 to provide professional consulting services to a variety of industry sectors. CASC is a mid-sized consulting firm that combines the personal touch of a small firm, with the stability of the large publicly-traded consulting conglomerates. Since 1998, CASC has been ranked by the Inland Empire Business Press as one of the top five Inland Empire Consulting firms (based on local area gross revenues). We currently employ over 45 professionals, working from four Southern California offices located in Palm Desert, Colton, Irvine, and Burbank with the majority of our staff living within our region.

STABILITY

CASC has over 23 years of experience providing services to numerous governmental agencies, local water districts, public utility companies, local utility districts, school districts, private enterprises, and industry groups. Our entrepreneurial spirit and commitment to innovation have allowed us to maintain a competitive cost structure, and offer superior services managed by our talented local labor force. Our diverse portfolio of services offered has allowed us to maintain stability even through rough economic conditions. Our multi-year, multi-million dollar contracts with Caltrans and Southern California Edison, among others, demonstrates our ability to weather economic cycles and to see your projects through to completion.

CLIENT SATISFACTION/REPUTATION OF FIRM

The best testimony to the quality of CASC's services is demonstrated by what our current and past clients say about our work, as well as our renewal of annual contracts. Our on-going work for organizations such as the Cities of Cathedral City, Palm Desert, Palm Springs, Caltrans (since the mid-1990s), the Riverside County Flood Control & Water Conservation District (RCFC&WCD) since 2003, Coachella, Indio, the Counties of Riverside, Imperial, San Bernardino and many more, that exemplify our commitment to quality services.

OUR STAFF - UNMATCHED

CASC offers a team of professionals based out of the firm's offices in Palm Desert, Colton, Irvine, and Burbank. All members of the project team have extensive experience providing services to municipal and utility clients within San Bernardino, Los Angeles, and Orange Counties and thus have a proven track record of performance on projects similar to the work the City requires.

SUMMARY OF SERVICES PROVIDED AND AVAILABLE

CASC provides a variety of services to our Public Agency Partners.

- Planning Services
- Municipal Plan Checking Services
- Drainage/Flood Control
- Water Quality
- Survey/Mapping
- Transportation
- Water and Wastewater

A PARTIAL LIST OF GOVERNMENT CLIENTS IS BELOW

- City of Needles
- City of Rancho Mirage
- City of San Bernardino
- County of San Bernardino
- City of Colton
- City of Loma Linda
- County of Riverside
- County of Riverside TLMA
- Riverside County Flood Control & Water Conservation District (RCFC&WCD)
- Riverside USD
- City of Moreno Valley
- Moreno Valley USD
- City of Perris
- City of Grand Terrace
- City of Temecula
- City of Wildomar
- City of Lake Elsinore
- City of Murrieta
- City of Norco
- City of Hemet
- City of Menifee
- City of Yucaipa
- City of Highland
- City of Rancho Cucamonga
- City of Ontario
- City of Fontana
- City of Montclair
- City of San Dimas
- City of Pacoima
- City of Covina
- Coachella Valley Water District
- City of Anaheim
- City of Yorba Linda
- City of Placentia
- City of Rialto

SUBCONSULTANT COMPANY OVERVIEW

ECORP Consulting, Inc.
ENVIRONMENTAL CONSULTANTS

ECORP CONSULTING, INC.

ECORP Consulting, Inc. (ECORP), a California corporation, has assisted our public and private clients with a wide range of environmental services since 1987. ECORP can provide support over the life of a project from initial baseline studies; to environmental planning and review, permit negotiation, liaison with resource agencies, and mitigation design; and through to construction supervision, monitoring, and compliance reporting. ECORP brings to our clients an experienced staff of over 100 CEQA and NEPA specialists, environmental permitting specialists, environmental analysts, terrestrial and aquatic biologists, wetland specialists, landscape architects, engineers, hydrologists, archaeologists/cultural resource specialists, architectural historians, and geographic information system (GIS) specialists.

ECORP has in-house staff experienced with modern analysis and visualization tools for assessing and addressing visual and aesthetic impact analysis including the successful completion of photo simulations, 3D visual simulations, sun and shadow analysis, reflectivity analysis, and observer/viewshed analysis. ECORP has experience assisting public agencies and private clients with visual resource impact analysis in support of CEQA and NEPA documents.

ECORP provides a full range of cultural resources management services for public and private sector clients. ECORP staff of archaeologists and cultural resources specialists is fully versed in procedures to comply with Sections 106 and 110 of the NHPA, NEPA, CEQA, and other federal, state, and local statutes related to cultural resources. Our services include record searches and literature reviews, archival research, field surveys, test excavations, data recovery, and construction monitoring. The staff is well versed in the preparation of agreement documents and management plans for the treatment of historic properties (i.e., properties listed on or determined eligible for listing on the National Register of Historic Places) or historical resources (i.e., properties listed on or determined eligible for listing on the California Register of Historical Resources). ***ECORP routinely assists clients in consultation with State Historic Preservation Officers (SHPO), Native American groups, and non-governmental organizations. We fully understand the consultation requirements of AB 52, SB 18, and Section 106.*** Our cultural resources staff has provided over 25 training workshops on the implementation of AB 52 since April 2015.

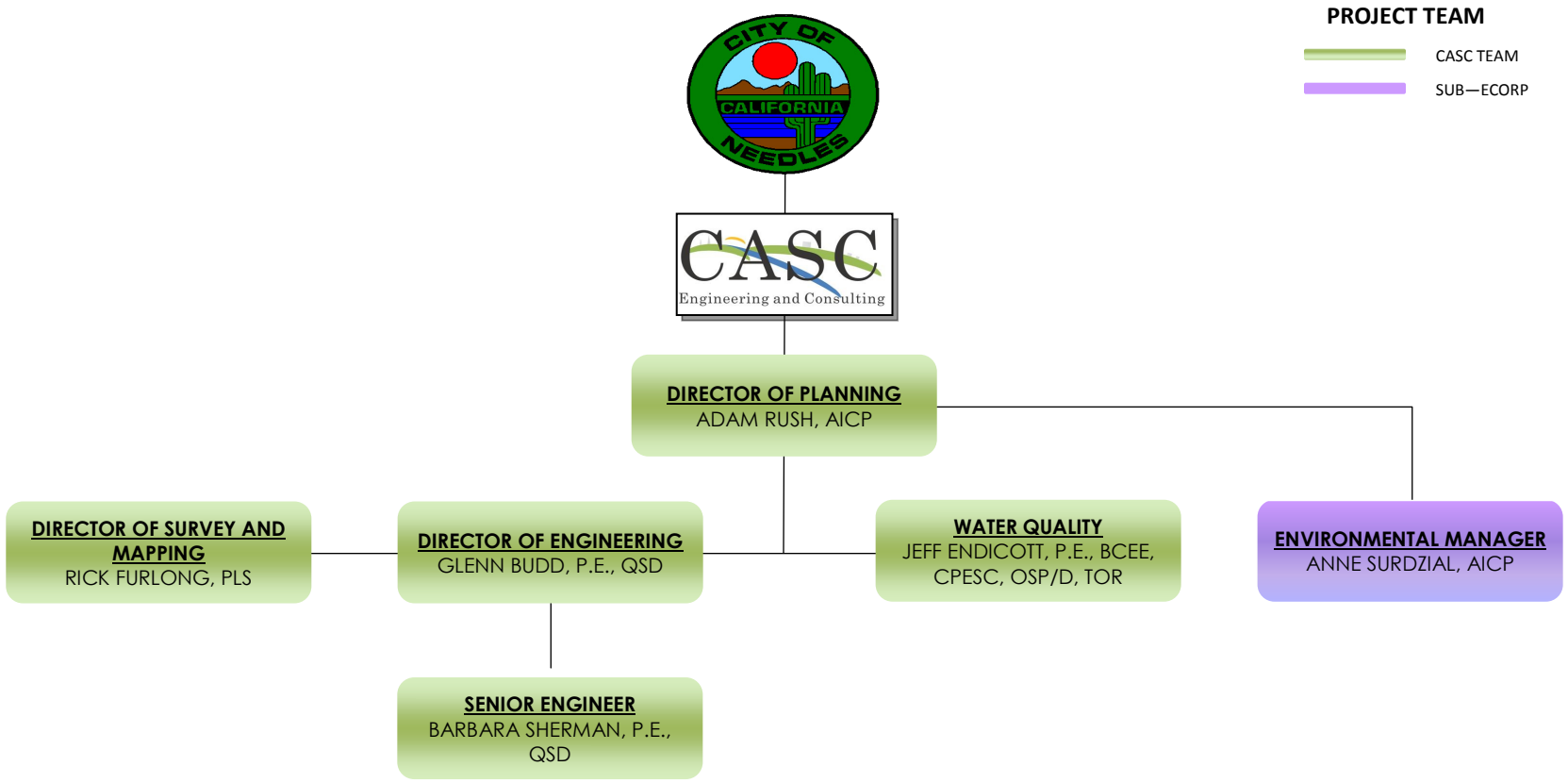
ECORP has prepared several aesthetic/view impact analyses reports that address the potential aesthetic and visual resource impacts that could result from projects with regard to visual quality, views, light, glare, and shading. Specifically, our reports evaluate the degree to which projects would modify scenic resources and natural landforms, change the visual character of the project area, and create a new source of light or glare. The report will address proposed building height, massing, and exterior color/texture. The analysis will also include a discussion of applicable General Plan policies and the City's Municipal Code identifying policies that protect Public Spaces and encourage Complete Streets. In addition, ECORP will addressed public view corridors, if applicable.

In support of the aesthetic/view impact analysis, ECORP models and analyzes the potential impacts to shade-sensitive uses from the shadows of the proposed project. In order to determine whether shading impacts would have a significant impact on the physical environment, shading diagrams will be prepared. The diagrams will show if shading will occur to adjacent off-site, shade-sensitive uses, and if so, the duration of shading on sensitive uses. Shadow impacts may be considered significant if shade-sensitive uses would be shaded by project-related structures for more than three hours between 9:00 a.m. and 3:00 p.m. from late October to early April (including Winter Solstice), or for more than four hours between early April and late October (including Summer Solstice).

PROJECT TEAM ORGANIZATION CHART

Mr. Adam Rush, AICP will be your day-to-day Project Manager to oversee all work by using our in-house QC/QA procedures and sound judgment based upon experience he will continue to monitor and review that work. In addition to the ongoing project reviews and checks, review meetings will be conducted by Mr. Rush and Mr. Budd, and the overall team at milestones during the plan formulation process to allow input and provide discussion of alternatives or issues.

CASC is pleased to present the project team shown in the organization chart below. Our team of professionals hold credentials that attest to their knowledge, skills, and abilities. By presenting credentialed and experienced staff, the City of Needles have exceptional confidence in the team.



4C. RESUMES

EDUCATION:

- Bachelor of Arts in Political Science/Claremont McKenna College
- Master of Arts in Political Science/ Claremont Graduate University

PROFESSIONAL REGISTRATIONS/ AFFILIATIONS:

- American Institute of Certified Planners (AICP)
- Building Industry Association (BIA) Riverside Chapter
- American Planning Association (APA)
- Association of Environmental Professionals (AEP)/CEQA Juror

ADAM RUSH, AICP

DIRECTOR OF PLANNING

Mr. Adam Rush joined CASC after a ten year career with the Riverside County Planning Department. Mr. Rush brings this decade of experience and proficiency in Land Use Planning and Urban Design, CEQA and NEPA compliance, climate action and sustainability planning, urban design, community outreach relations and staff supervision, project management, municipal land use, and transportation planning, to CASC with the goal of successfully servicing municipal clients in a cost effective manner and with a customer first attitude.

Mr. Rush, while at the County of Riverside, gained significant experience in a wide selection of urban and regional planning, transportation systems, planning of redevelopment areas, and coordination of over 150,000 units planned in the Perris and San Jacinto Valleys. In addition, Mr. Rush was the Lead Project Manager for a recently approved Specific Plan/EIR of 11,350 units and over 500,000 square feet of Mixed-Use Commercial. This Specific Plan was approved in 2012 as The Villages of Lakeview (TVOL) Specific Plan, which spans from the City of San Jacinto to the City of Perris along the Ramona Expressway. Mr. Rush is *well-versed in the complexities associated with the recently approved Mid-County Parkway (MCP) project* that spans from Highway 79 to the Interstate 215 freeway, in the City of Perris. More specifically, Mr. Rush brings a decade of Land Planning experience with the San Jacinto Valley, including but not limited to coordination with the San Jacinto Wildlife Preservation Area, the Ramona Mobility Group (RMG), Project Manager for the following Specific Plans (all located in the San Jacinto and Perris Valleys): McCanna Hills (SP246A1); Lake Nuevo Village (SP251A1); The Riverwalk Specific Plan (SP335); The Villages of Lakeview Specific Plan (342). Mr. Rush assisted in the management, development, drafting, analysis, and integration of the County of Riverside's first Healthy Communities Element (HCE), which was adopted by the County Board as GPA 1097 in 2011.

CEQA EXPERIENCE:

Mr. Rush has participated in the preparation, drafting, coordination, publication and overall project management associated with Initial Studies, Mitigated Negative Declarations (MND), Environmental Impact Reports (EIR), Environmental Impact Statements (EIS) and Joint-EIR/EIS documentation. A short list of notable projects are identified below:

- City of Needles Environmental Impact Assessment (EIA)
- "On-Call" Plan Checking for the City of Desert Hot Springs (DHS), which involves several medical marijuana cultivations projects.
- McCanna Hills Specific Plan Supplemental EIR (Perris Valley, CA)
- Lake Nuevo Village Specific Plan Subsequent EIR (Perris Valley, CA)
- Cantalena Specific Plan (Menifee, CA)
- The Villages of Lakeview (TVOL) Specific Plan/EIR (San Jacinto Valley, CA)
- Winchester Hills Specific Plan (Winchester, CA)
- City of Temecula Initial Study/MND
- City of Placentia Initial Study/MND
- City of El Centro Housing Conditions Survey and Assessment
- City of Banning Surface Mining Permit and Environmental Impact Report (EIR)
- Rite Aid Shopping Center (County of San Bernardino, High Desert Region)

PROFESSIONAL REGISTRATIONS/ AFFILIATIONS:

- CA Licensed Land Surveyor # 8422—Exp. 12/31/2016
- California Land Surveyors Association (CLSA)
- National Society of Professional Surveyors (NSPS)

RICK FURLONG, P.L.S.

DIRECTOR OF SURVEY AND MAPPING

Richard Furlong is the Director of Survey and Mapping for CASC. He is an accomplished professional surveyor with over 30 years of surveying experience in Southern California and is currently in his 17th year as Director of Survey and Mapping for CASC.

Mr. Furlong has a broad survey background including construction staking, hydrographic, topographic mapping, boundary surveys, design surveys, parcel mapping, records of survey, and cadastral surveys. He has served as project manager for various construction projects and on-call surveying services for public and private sectors, and is currently a contract surveyor for the City of Redlands, checking, signing and sealing final and parcel map for technical correctness. He is very knowledgeable with the surveying and mapping standards of the various municipal agencies and Caltrans.

RELEVANT EXPERIENCE:

Mr. Furlong's extensive work for a variety of public agencies and private owners gives him insight into conditions that may affect scheduling, costs, and contractual procedures. A partial list of his project experience includes the following:

- Inland Empire Utility Agency, Inland Empire, CA
- CVWD - New Waterline from Day/East Canyon to Llyod M. Michael Water Treatment Plant - Aerial and Topographic Surveying.
- CVWD - CP6953 Sewer Main Replacement in Baseline Road - Aerial and Topographic Surveying.
- CVWD - CP6954 Sewer Main Replacement in Hermosa Avenue - Aerial and Topographic Surveying.
- CVWD - CP6819 12-Inch Waterline Installation in Etiwanda Avenue - Topographic Surveying.
- Design Surveying for Apache Trail, Riverside County, CA
- U.S. Gypsum Solar Facility – Plaster City, CA: Aerial Topographic Mapping and Boundary Surveying
- Allegretti Farms Solar Project, Imperial County, CA: Aerial Topographic Mapping, Boundary Surveying and Base Mapping for planned 20 KV PV Solar plant.
- Solar Thermal Project, Needles, CA: Topographic Mapping, Base Maps
- Crafton Hills College, Yucaipa - Aerial Surveying, Topographic Surveying and Construction Surveying.
- San Bernardino Valley College - Topographic Surveying and Construction Surveying.
- Colton Unified School District - Colton High School, Bloomington High School, Terrace View Elementary School, Alice Birney Elementary School, Abraham Lincoln Elementary School, Washington High School - Topographic Surveying and Construction Surveying.
- City of Fontana - Sierra Avenue Median Improvements - Construction Surveying.
- Four Photovoltaic Solar sites totaling 1,700 acres, Imperial County, CA: Aerial Topographic Mapping and Boundary Surveying
- City of Redlands - On-Call Map Checking Services.
- Ormat Technologies: Aerial Topographic Mapping for 3 proposed geothermal / Photovoltaic Solar sites totaling 1000 acres, Imperial County, CA
- Armstrong Road Beautification, Riverside County EDA, CA
- Home Gardens Beautification, Magnolia Avenue, Riverside County EDA, Corona, CA

EDUCATION:

- AA/Valley College/San Bernardino
- Civil Engineering Coursework/California State Polytechnic University/Pomona

PROFESSIONAL REGISTRATIONS/ AFFILIATIONS:

- Professional Engineer/ California/58411

GLENN BUDD, P.E., QSD

DIRECTOR OF CIVIL ENGINEERING

Mr. Budd is a Registered Civil Engineer in the State of California. He has more than 30 years of experience in management, strategic planning with preliminary and final engineering design of numerous and diverse projects throughout the Inland Empire. These projects include communities and cities in San Bernardino and Riverside Counties, also several projects in Orange and Los Angeles Counties. Glenn's specific experience includes roadways, backbone infrastructure, water sewer and storm drain systems with underground piping and open channels for commercial, industrial, residential, residential and public work projects.

Mr. Budd brings extensive management experience of both projects and staff. As a manager, is responsible for client relations, staffing project documentation, construction support and Quality Assurance/Quality Control on all projects. He also prepares or supervises the preparation of Water Quality Management Plans, SWPPP, NOI, hydrology/hydraulic reports, sewer and water reports, project schedules and project status reports, construction design plans including street, street light, signing and striping, sewer and water, reclaimed water, storm drain, grading, erosion control and others. Glenn has a working knowledge of both AutoCADD and Microstation. He facilitates communications with clients, clients' consultants, public agencies and project teams, both internally and externally. He oversaw the plan check of water projects for San Bernardino Municipal Water Department.

RELEVANT EXPERIENCE:

North San Bernardino Industrial Park Plan Check - San Bernardino Municipal Water Department (SBMWD), San Bernardino, CA: The Plan Check services on the North San Bernardino Industrial Park for SBMWD are part of the expedited plan check required and paid for by the developer of this important project in the city. The project is along Cajon Boulevard from Kendall Drive to the projection of Little League Drive in the northwesterly section of the City of San Bernardino. The project is for new construction of over 6,600 linear feet of a 12-inch Ductile Iron Pipe (DIP) that crosses existing BNSF Railroad tracks. The water line interconnections with existing 12-inch DIP and 24-inch DIP. The plan check services including reviewing the horizontal and vertical design, quantities, fire hydrant requirements, jack & bore casing design, adherence to SBMWD design and drafting standards, etc. Mr. Budd provides necessary coordination with SBMWD staff to maintain records and status of incoming and outgoing reviews. CASC also provided the inspections services for this project. This inspection included continuous inspection of the installation of the pipeline, fire hydrants, water meters, blow-off, etc. CASC prepared Tie Sheets and a Project Close-out Book with photo logs, daily reports and quantity take-offs.

San Bernardino International Airport Authority (SBIAA) Plan Check - San Bernardino Municipal Water Department (SBMWD), San Bernardino, CA: The Plan Check services on the SBIAA for SBMWD are part of the expedited plan check required and paid for by the developer of this important project in the city. The project is along Victoria Avenue and "U" Street within the San Bernardino International Airport. This project will support the relocation of the San Bernardino County Sheriff's facility currently located at Rialto Airport which is slated for closure. The project is for new construction of approximately 4,000 linear feet of new Ductile Iron Pipe (DIP) that varies in size from 8-inch to 24-inch . These water lines interconnection with the existing 10-inch ACP and 12-inch ACP pipelines. The plan check services including reviewing the horizontal and vertical design, quantities, fire hydrant requirements, jack & bore casing design, adherence to SBMWD design and drafting standards, etc. Mr. Budd provides necessary coordination with SBMWD staff to maintain records and status of incoming and outgoing reviews.

Thomas E. Levy Groundwater Replenishment Facility - Coachella Valley Water District, CA: Project Engineer for design of 39 new water recharge basins for Coachella Valley Water District. This project consisted of sizing basins, providing outflow pipes and spillways with basin interconnection, access roads and drainage channels through the site.

EDUCATION:

- BS/Civil Engineering/ California State Polytechnic University/ Pomona , CA
- BS/Biology/University of California/Riverside, CA

PROFESSIONAL REGISTRATIONS/ AFFILIATIONS:

- Professional Engineer/ California/54609

BARBARA SHERMAN, P.E., QSD

SENIOR PROJECT ENGINEER

Ms. Sherman is a registered civil engineer in the State of California. She has over twenty years of experience in the civil engineering industry. Her design experience includes grading, sewer, water, street and storm drain design. She has design coordination experience with various cities, utility agencies and railroad companies.

Prior to joining CASC, Ms. Sherman was employed by ASL Consulting Engineers where she performed street, sewer, water, and grading design for various agencies in Southern California.

RELEVANT EXPERIENCE:

Plan & Document Review, City of Redlands, CA: Since early 2007, Ms. Sherman serves as one of the lead Plan Checker team members providing services at the City of Redlands. In addition to assuring that Precise Grading Plans, Erosion Control Plans, Street and Storm Drain Plans, Traffic Signing and Striping Plans, Street Light Plans, Street Tree Plans, and Storm Water Pollution Prevention Plans are prepared in accordance with the City's standards and acceptable engineering practices, Ms. Sherman provides necessary coordination with City staff to maintain records and status of incoming and outgoing reviews, meets with developers/owner's engineers, conducts site visits, and reviews conditions of approval.

McSweeny Farms Park Site, City of Hemet, CA: Ms. Sherman served as the Project Manager for this 5-Acre Park Site as a part of the McSweeny Farms Master Planned Community. Ms. Sherman was the interface between the developer, City of Hemet, and Valley Wide Development and Recreation Department. Mrs. Sherman is the Engineer of Record for this Park Site and provided oversight for the design which included pre-fabricated restroom facilities, baseball field, soccer fields, basketball courts, exercise and playground equipment, and a tot lot.

McSweeny Farms Community Center, City of Hemet, CA: Ms. Sherman served as the Project Manager for this 3.5 -Acre Community Center as a part of the McSweeny Farms Master Planned Community. Mrs. Sherman is the Engineer of Record for and provided oversight for the design which included an 18,000 sq. ft. barn-style building, Olympic size swimming pool, open-air amphitheater, outdoor barbeque/eating area, basketball courts, and several meandering trails and sidewalks.

Pepper Avenue Extension, City of Rialto, CA: Ms. Sherman served as the Project Manager providing construction support for the street, sewer, storm drain improvements. Review of RFI's and material submittals as requested by the contractor and City.

Tract 31892, Riverside County, CA: Ms. Sherman served as the Project manager, in charge of designing approximately 3 miles of street improvements, rough grading plans, and 8" to 12" diameter waterline and sewer line for 241 acre, 379 Lot residential site. The project involves inter-ties for temporary construction water until future tank and booster stations are online. Coordinated approval of the final design improvement plans with the County of Riverside and Eastern Municipal Water District.

Newport Commons Business Park, Riverside County, CA: Project Manager that provided oversight for the preliminary and final grading, sewer and water design, street improvements, as well as the water quality infiltration system. Project required coordination efforts between client, architect, landscape architect, county transportation department, and flood control.

EDUCATION:

- BS / Environmental Resources Engineering / Humboldt State University / California

PROFESSIONAL REGISTRATIONS:

- Professional Civil Engineer
  California / #040658
  Nevada / #013503
  North Dakota / PE-8749
- Board Certified Environmental Engineer / National / #04-20040
- Certified Professional in Erosion and Sediment Control (CPESC) / International / #5414
- Qualified SWPPP Developer and Qualified SWPPP Practitioner / California / #00004
- California Stormwater Quality Association / Approved Trainer of Record
- EnviroCert International / Approved Trainer for Certified Professional in Erosion and Sediment Control (CPESC) Review Course and Exam

PROFESSIONAL AFFILIATIONS:

- California Stormwater Quality Association / Director: 2003-2009, 2012-2015
- International Erosion Control Association, Western Chapter, Director 2014-2016
- American Public Works Association, Inland Empire Chapters, Director 2014-2016
- American Society of Civil Engineers - San Bernardino and Riverside Counties Branch / President: 1993-94
- Inland Empire Council of Engineers and Scientists / President: 1995 - 1996

JEFF ENDICOTT, P.E., BCEE, CPESC, QSD/P, TOR

DIRECTOR OF WATER QUALITY SERVICES

Jeffrey D. Endicott has extensive environmental and civil engineering experience as a consultant and in the public sector. Water, both as a resource and as a force in nature, has been a central element of Mr. Endicott's work, with projects ranging from development of potable water supplies to prevention of environmental damage initiated by rainfall and runoff. Mr. Endicott draws upon his public sector and private sector experience to produce practicable solutions to complex environmental problems. Mr. Endicott is widely recognized as an expert on water quality management planning for new development and redevelopment projects, and has taught courses on the subject attended by over 2,000 municipal staff, consultants, and other interested parties. Mr. Endicott served as the project manager for development of the California Stormwater Quality Association's 2003 edition of the "***California Stormwater Quality Best Management Practice Handbooks***." In addition to managing the development of the four-volume set of handbooks, he was a key author of the "***New Development – Redevelopment Handbook"*** and the key technical advisor on the "***Construction Handbook***." He served as a technical advisor for the Bay Area Stormwater Management Agencies Association's book, "**Start at the Source**," and was the Technical Director for the companion document, "**Using Start at the Source to Comply with New Development Requirements for Stormwater Quality Protection**."

RELEVANT EXPERIENCE:

WQMP/SUMP Review and Plan Check Services: Mr. Endicott has directed CASC's WQMP/SUSMP Review and Plan Check Services Team since 2004. During this time, the team has plan checked many hundreds of WQMP/SUSMP submittals on projects including master planned communities of over 1,600 acres, major warehouse facilities, big-box store retail centers, small commercial centers, single and multi-family residential developments,

public works projects, utility projects, and more. His experience includes WQMP/SUSMP Plan Checking for the following agencies:

Jeff assists agencies determine the appropriate set of BMPs, including Treatment Control BMPs (TCBMPs), to allow in WQMPs/SUSMPs within in their jurisdiction by clearly identifying the benefits and constraints of various BMPs. He works with agencies to develop design standards. He and advises agencies during meetings with developers and their WQMP/SUSMP preparers, and advises agencies on emerging WQMP/SUSMP and BMP issues. For agency projects, Jeff provides peer review services whereby he advises the agency regarding the near- and long-term implications associated with their selection of LID BMPs.

Riverside County Agencies		San Bernardino County Agencies	
County of Riverside, TLMA	County of Riverside, EDA	City of Highland	City of Montclair
City of Moreno Valley	City of Hemet	City of Redlands	City of Colton
City of Temecula	City of Perris	City of San Bernardino	City of Loma Linda
City of Banning	City of Rancho Mirage	San Bernardino Flood	City of Rialto

SUBCONSULTANT RESUME

ECORP Consulting, Inc.
ENVIRONMENTAL CONSULTANTS

EDUCATION:

- B.S./Environmental Science/ University of California, Riverside

PROFESSIONAL REGISTRATION:

- American Institute of Certified Planners (AICP), Certificate #11097

ANNE SURDZIAL, AICP

DIRECTOR OF CEQA/NEPA SERVICES

Ms. Surdzial is an environmental analyst with 25 years of experience in the planning field. She has prepared and managed the preparation of numerous Initial Studies (IS) and Environmental Assessments (EA), which are NEPA-based. In addition, Ms. Surdzial has prepared and managed several Environmental Impact Reports (EIR), as well as Environmental Impact Statements (EIS), which again are NEPA-based. As Director of CEQA/NEPA Services for ECORP, she is responsible for managing CEQA and NEPA work in all ECORP offices, ensuring consistency and quality of all products. Much of her experience focuses on the environmental analysis of water, wastewater, transportation, and energy infrastructure projects for a variety of federal; state, regional and local agencies; and private clients. Her expertise includes management of large, on-call environmental programs for public agencies, requiring the completion of multiple, simultaneous task orders and management of multiple internal project teams and subcontractors. She is also experienced in land use planning and historic preservation issues and has worked for public planning departments. Ms. Surdzial's alternative energy experience includes BLM Plan of Development preparation support, temporary land use application, conditional use permit, and CEQA/NEPA support. She has also provided third-party review of wind and solar EISs and EIS/EIRs.

PROFESSIONAL EXPERIENCE:

- **AB 52 Implementation Support:** CEQA Task Manager. ECORP assisted the County in developing Standard Operating Procedures (SOPs) for the implementation of AB 52 on a project-by-project basis by County staff. ECORP assembled a set of SOPs that were composed of screening checklists, letter templates, and templates for IS/MND and EIR sections including sample mitigation measures. The SOPs were customized to the County, but general enough to be utilized by multiple departments within the County (e.g., public works, community development, land use). ECORP also provided in-house training session at the County offices to train staff on using the SOPs.
- **Plan of Development Support, Solar Farm Project, San Bernardino County – First Solar Development, Inc.:** Project Manager for Plan of Development (POD) support for a proposed 300 megawatt, 5,400-acre photovoltaic solar farm on land managed by the BLM Needles Field Office located near the California/Nevada state boundary in San Bernardino County. ECORP provided planning support to the applicant through third-party review of technical studies and preparation of the POD on an expedited schedule.
- **Corridor Constraints Analysis for Stateline Solar Farm Project, San Bernardino County – First Solar Development, Inc.:** Project Manager for a corridor conflict analysis to determine if the proposed solar farm transmission line was consistent with BLM's regulations and land use plans. The analysis included all existing authorized developments located in the CDCA utility corridors (e.g. transmission lines, pipelines, railroads, roads) and an analysis of current authorized and operation widths and the distance needed between various types of facilities. The analysis also discussed how the corridor will accommodate future projects if the solar farm application were approved. The analysis was prepared in BLM format and submitted to the Needles field office for approval.
- **CEQA and NEPA Support for Waste-To-Energy Facility and other Energy Savings Projects, Fort Irwin, San Bernardino County – Fort Irwin as a sub to Siemens Industry, Inc.:** QA/QC for the preparation of an EA, IS/MND and revised Joint Technical Document for Siemens' Energy Saving Performance Contract (ESPC) Project. U.S. Army Garrison Fort Irwin, in accordance with the Army Energy Program, is pursuing net zero goals of reducing, recycling and reusing, and self-generating. The ESPC Project is comprised of three components that include a waste-to-energy (WTE) Facility, two solar photovoltaic (PV) carports, and six other energy conservation measures (ECMs). A Revised Joint Technical Document for the landfill and supporting IS/MND were prepared for the WTE Facility component of the project. ECORP also prepared cultural and biological technical reports including a focused protocol desert tortoise survey.

4D. PROJECT EXPERIENCE AND REFERENCES

CONTRACT PLANNING & ENVIRONMENTAL SERVICES

NEEDLES, CA

City of Needles
817 Third Street
Needles, CA 92363
Mr. Rick Daniels
Office of the City Manager
Phone: 760-326-2113 Ext. 313
Email: ndlscitymgr@citlink.net

CASC recently completed a Land Use and Environmental Impact Analysis (EIA) associated with a proposed 100MW Photovoltaic (PV) solar facility. The project is proposed by Mojave Valley Energy, LLC (MVE) and CASC serves as an extension of the City's technical staff to evaluate the short-term and long-term benefits and possible impacts to the City and the Needles Public Utility Agency (NPUA).

CONTRACT ENVIRONMENTAL AND LAND PLANNING SERVICES

COUNTY OF RIVERSIDE, CA

County of Riverside
4080 Lemon St.
Riverside, CA 92501
Contact: Steve Weiss, AICP
Planning Director
Phone: 951-955-6097
Email: sweiss@rctlma.org

CASC currently provides a wide spectrum of Land Use Planning, Design, and Project Management Services for the County of Riverside Planning Department. With our experienced Land Use Planners and CEQA Practioners, CASC is currently developing a comprehensive land use and infrastructure study for the blighted Highway 74 Corridor, between the Cities of Perris and Lake Elsinore. CASC's Planning Director, Mr. Rush managed the County's 2008 General Plan Update and Programmatic EIR. Mr. Rush completed numerous EIR's, EIS's, Initial Studies, and CEQA Exemptions, Land Use inventories, zoning overlays, and housing projects located within the Counties of Riverside, Orange, and San Bernardino. More specifically, Mr. Rush prepared an inventory of all unpermitted housing structures within a 16-square mile area for the ultimate development of a Zoning Overlay for housing purposes. This land use analysis also incorporated CEQA and NEPA documentation, Redevelopment and CDBG project implementation.

CONTRACT PLANNING AND ENVIRONMENTAL SERVICES

CITY OF LAKE ELSINORE, CA

City of Lake Elsinore
130 South Main St.
Lake Elsinore, CA 92530
Contact: Grant Taylor
Director of Community Development
Phone: 951-674-3124 Ext. 270
Email: gtaylor@lake-elsinore.org

CASC currently serves as an "on-call" consultant, to the City of Lake Elsinore, to provide a wide array of Development Review/Plan Check Services and Environmental Planning and Regulatory Services for the City of Lake Elsinore. The contract with the City of Lake Elsinore was awarded in late-2015 to provide increased attention to the City's customer service efforts while reducing the overhead costs and allow City staff to focus on long-term planning and environmental projects. The City of Lake Elsinore represents one of several historic cities adjacent to the I-15 freeway, with a rich history similar to the City of Temecula. CASC's municipal planning and environmental services provide a much needed asset to the City for cost-effective and efficient services towards the community and your business partners. A partial list of services CASC provides to the City of Lake Elsinore includes the preparation of staff reports (including project conditions of approval and associated environmental documentation); interaction with both members of the public, internal City agencies and external County agencies (such as Riverside County Flood Control District which still retains jurisdiction within certain areas of the City); public presentations at community meetings and scheduled public hearings before appointed and elected bodies of government.

CONTRACT PLANNING AND ENVIRONMENTAL SERVICES

CITY OF WILDOMAR, CA

City of Wildomar
23873 Clinton Keith Rd., Ste 201
Wildomar, CA 92595
Contact: Matthew C. Bassi
Planning Director
Phone: 951-677-7751
Email: mbassi@cityofwildomar.org

CASC provides land use analysis and environmental planning services for the City of Wildomar Planning Department on an "on-call" and as needed basis. The contract with the City of Wildomar was awarded in 2014 to provide more efficient customer service capabilities while reducing the overhead costs sometimes associated with permanent staff members. A partial list of services CASC provides to the City of Wildomar includes the preparation of staff reports (including project conditions of approval and associated environmental documentation); interaction with both members of the public, internal City agencies and external County agencies (such as Riverside County Flood Control District which still retains jurisdiction).

WQMP PLAN CHECKING SERVICE

CITY OF BANNING, CA

City of Banning
Mr. Art Vela, P.E.
Public Works Director/City Engineer
99 Ramsey Street
Banning, CA 92220
(951) 922-3131
avela@ci.banning.ca.us

CASC is currently providing Plan Check services to the City of Banning, associated with Preliminary and Final Water Quality Management Plans (WQMPs). CASC is responsible for reviewing and recommending approval of WQMPs submitted to the City. WQMP plan check services are performed in accordance with requirements adopted by the City in response to provisions of their municipal NPDES storm water permit covering the Whitewater River Watershed.

PLAN CHECK SERVICES

CITY OF SAN BERNARDINO, CA

City of San Bernardino
300 North "D" Street, 3rd Floor
San Bernardino, CA 92418
Contact: Marlene Miyoshi
Interim Director
Phone: 909-384-5140

CASC was contracted by the City of San Bernardino to provide Plan Review services for the Development Services Department. Plan reviews included checking grading, erosion control, precise grading, retaining walls, street improvements, sewer improvements, street light, and storm drain plans, and review of hydrology/hydraulic reports and traffic studies. CASC also reviewed tract maps, parcel maps, lot line adjustments, and other mapping documents. CASC was responsible for verifying that the City's requirements were met by applicants, tracking incoming and out-going plan checks, interfacing with the developer's engineers, and obtaining approval of the various plans with minimal oversight from the City. Understanding of Development Codes and City Standards along with good record keeping and coordination were key to meeting the City's review goals.

INSPECTIONS AND PLAN CHECK SERVICES

SAN BERNARDINO MUNICIPAL WATER DEPARTMENT

San Bernardino Municipal Water District
300 N. D Street
San Bernardino, CA 92418
Contact: Michael Nevarez
Engineering Department
Phone: 909-384-5092

CASC was contracted by the City of San Bernardino Municipal Water Department (SBMWD) and provided Review and Inspection Services for Parcel Map No. 19395 Water Improvement Plans. This project consisted of 5,580 linear feet of 12" Ductile Iron Pipe (DIP) with a jack and bore under existing tracks. Plan reviews included checking; horizontal and vertical design, compliance with agency CADD standard drawings, design criteria, specifications, file nomenclature and format. CASC also reviewed compliance with the GIS standards for the project.

5. SCOPE OF SERVICES & BUDGET

The following is CASC's approach to providing Land Use and Environmental Documentation (e.g., CEQA and NEPA compliance), engineering and water quality plan check services and is derived from the following four key areas of experience:

Expert-level Knowledge and Experience: CASC brings over 40 years of land planning and policy experience. The Project Team includes regional experts in land use design, mapping (including GIS and AutoCAD), and policy implications within the eastern desert areas of Riverside and Sand Bernardino Counties, the Cities of Needles, Rancho Mirage, La Quinta, Banning, Wildomar, Lake Elsinore, Temecula, and the County of Riverside Departments of TLMA, EDA, and Flood Control.

Regional Knowledge: CASC's land planning and policy-level experience is based within the Inland Empire, including our Environmental Management for the Cities of Needles, Banning, Hemet, Lake Elsinore, Wildomar, and the unincorporated County of Riverside. This regional connection is vital when preparing Project and Programmatic-level CEQA documents, as well as an experienced understanding of the environmental setting relative to municipal planning. With respect to the 31.28 square miles that the City covers, CASC has direct project experience in all regions and settings with the urbanized and suburban areas of San Bernardino County. Our first approach to the preparation of a project baseline is to fully understand the environmental, political, public and policy settings in which decisions will be discussed, negotiated, and determined. Traditionally, CASC does not begin a project until there is a clear understanding of the important stakeholders, including public and private interest groups, collaborative jurisdictions, the applicable Permittees, and other Interested Members of the Public at-large. This information is typically obtained through a scheduled "Kick-Off" meeting with City Staff. Through this effort, we anticipate that the adjacent property owners, residents, and surrounding stakeholders will be engaged through the public notification process associated with the IS/MND. CASC is experience, and consistently engages with members of the public, interested parties and stakeholders.

Overall Budget and Project Management: Our staff manages all aspects of the planning process with efficiency and competency. CASC holds an impressive resume of municipal plan check services for jurisdictions throughout the Inland Empire, including environmental work for the City of Needles, the City of San Bernardino, and San Bernardino Flood Control District, and many other jurisdictions within western San Bernardino County. More specifically, the advantage of hiring CASC for the Municipal Plan Check Services is that the Engineering Team and Environmental Team are under the same roof. Our Environmental Planners (which are APA Certified) collaborate hand-in-hand with the Civil Engineers and Water Quality specialist at CASC. Many of these projects include municipal facilities projects, such as new commercial, industrial, and residential construction; regional and in-tract infrastructure for new residential development; and water quality engineering pursuant to the County's MS-4 mitigation restrictions. In addition, CASC has provided Civil Engineering services for Municipal Agencies and private companies, since 1993, and across a broad spectrum of recreational, residential, commercial, industrial, and civic partners.

TASK I. PROJECT KICK OFF MEETING

Upon receiving a Notice to Proceed (NOP), from the City of Needles, CASC recommends reaching out to the City Staff, including the City Manager, Planning and Public Works Staff, and other associated staff as directed by the City Manager to initiate discussions associated with any revisions, updates and/or schedule changes necessary to the City's goal. In this capacity, CASC anticipates acting as an extension of City Staff, who will manage and prepare the Draft environmental documents and technical reports listed below, as well as act as a conduit between the project proponent, technical subconsultants, and the City to complete the project on time and within the budget identified. Attending this meeting will be CASC's Planning Director, Mr. Adam Rush, AICP (who will also act as the Lead Project Manager and primary point of contact through the project and will coordinate the necessary engineering, water quality, and structural plan check services Lastly, we

anticipate this "Kick-Off" meeting to occur within 5-business days from the issuance of the City's Notice to Proceed.

TASK II. IDENTIFY EXISTING CONDITIONS

Based upon our vast experience with the preparation of environmental documents, the practice of CEQA and NEPA, and the depth of experience with a Civil Engineering and Water Quality Services firm, we have the knowledge and expertise to engage in the necessary research, property evaluation, due diligence, evaluate and implement the Guidelines and Statutes prescribed by the Uniform Building Code (UBC), the City's Municipal Code, and the City's environmental regulations. Based upon our initial evaluation of the City's RFP, and the information already provided through the City's Municipal Code, and any additional research through the City's sources. In that vein, CASC will obtain and review all the applicable reports, documents, and plans associated with the anticipated medical marijuana facilities. Based upon our initial review, CASC will recommend to the City Manager, the appropriate environmental clearance document for the project site, i.e., a CEQA exemption and/or an IS/MND. Based upon this review and an assessment of the City's General Plan, the General Plan Designation(s) associated with the subject site, any Specific Plan associated with the property and/or zoning classifications, and previous entitlements, survey documentation, and a field inspection of the project site, CASC will develop a brief existing conditions report utilized in our environmental baseline associated with the preparation of the IS/MND.

TASK III. DESIGN REVIEW AND PLAN CHECK

1. CASC will review the proposed project in relation to the City's General Plan and Municipal Code. Understand and comment on Land Use, Zoning, and neighborhood consistency and begin engagement with the environmental compliance/CEQA process.

2. Review plans for public improvements, including but not limited to streets, curbs and gutters, sewers, storm drains, culverts, rough grading, traffic signals, traffic movement, traffic striping/signage, sidewalks, and onsite grading/paving.

3. Review supporting studies, such as drainage studies, hydraulic analysis, quantity calculations, pavement design, structural calculations and other calculations and studies needed to support the design of projects identified in Item Number One, as identified above.

4. CASC's Survey and Mapping Department will review all subdivision maps, including final tract maps, and parcel maps. Our Survey and Mapping Department will also review and verify Rights-of-Way documentation, including but not limited to, legal descriptions for easements, dedications, lot line adjustments and parcel mergers. Verification of the Basis of Bearing and Benchmarks will be part of the review process.

5. CASC's Water Quality Department will review NPDES requirements including but not limited to Storm Water Pollution Prevention Plans (SWPPP) and Preliminary & Final Water Quality Management Plans (P-WQMP AND F-WQMP) for compliance with current regulations and requirements. All plans shall conform to the City's NPDES ordinance and the policies of the City Engineer. CASC has provided WQMP Plan Checking services on behalf of several agencies in San Bernardino and Riverside Counties, including Highland, Redlands, Montclair, San Bernardino, Moreno Valley, Hemet, Banning, Temecula, Perris, Riverside County TLMA, Riverside County EDA. ***This experience keeps CASC in tune with agency-specific requirements and BMP approaches throughout the County***.

6. All plan check reviews will be done in conformance with the city's ordinances. The Condition of Approval, agency standard drawings, approved site or tract maps, Planning Department comments, Title Reports, Technical Studies, verify WDID issuance, grants or vacations of Right of Way, Lot and Tract Boundary closures including reference maps, assessors maps and all relevant plans, specifications, etc. will be part of this thorough review.

7. All plan check services will be performed under the direction of a licensed professional (s) by the State of California. Our team consists of multiple PE, PLS, CPSEC, QSD/P, AICP Planners, and other licensed professionals. These professionals will work as a team to review plans, and documents for the City of Palm Springs. A Professional will sign and stamp original mylars signed by the project's Engineer of Record when ready for approval by the City Engineer. An approval letter will be sent to the City Engineer stating that the plans have been reviewed and approved by our professional team.

8. CASC has a plan check spreadsheet for plan check status that will be placed on-line to allow the city and the developer to the view the plan check status.

9. CASC's professional team will review cost estimates.

10. CASC's Project Manager will meet with the City Departments at each plan check. These meetings will allow input from other city departments beyond the Engineering Department. These departments could include but not limited to Planning, Building and Safety, Fire, Utilities, Water/Sewer, Water Quality, Survey, Parks and Recreation, etc.

All work will be done by the team of professionals within this proposal. The Director of Engineering Services or City Engineer would have to authorize any substitutions of the sub consultant team.

TASK IV. PREPARATION OF THE DRAFT INITIAL STUDY (IS)

CASC will prepare the Draft Initial Study, to be reviewed and considered in conjunction with the City's development proposal and supported by the Technical Reports completed, as necessary. This phase will serve as the City's screen check document. The following subtasks will be completed:

- **Develop the Environmental Setting**: Utilizing the project materials available and reviewed, CASC will prepare the existing Environmental Setting for each of the issues being evaluated in the IS, utilizing the technical studies, as necessary, and data gathered independently for the remaining issues.

- **Prepare All Remaining IS Sections**: The CEQA mandated sections (Alternatives, Growth Inducement, Cumulative Effects, lists of contacts and persons consulted, General Plan Consistency, and sources referenced) will be prepared under this subtask. In addition, a Mitigation Monitoring and Reporting Plan (MMRP) will be developed. At the completion of City's Draft Initial Study, CASC will provide three (3) hard copies to the City for review along with a Microsoft Word and PDF version for the City's records and manipulation if necessary.

- Incorporation of all applicable Technical Reports/Special Studies provided by the project proponent or prepared by CASC under a separate request. These reports can include, but not necessarily limited to Air Quality, Noise, Traffic, Biology, Water Quality Management Plans (NPDES/MS-4 Permit compliance), Cultural, Geological, Airport Influence compatibility plans, Geotechnical, and a Phase I Environmental Site Assessment (ESA).

TASK V. CITY TO PROVIDE COMMENTS/CORRECTIONS ON DRAFT INITIAL STUDY

CASC will solicit, receive, review and prepare responses to all comments that arrive from the various departments and agencies (e.g. Fire Department, Public Works, Building and Safety, Geology, etc.). Each comment submitted – in writing – on the Draft Initial Study will be cataloged, prioritized and responded to by the appropriate member of the Consultant Team. These comments will be promptly addressed in the City's Final Draft Initial Study and will be compiled, printed and submitted to the City for review and approval prior to public distribution. CASC will coordinate with the appropriate City agencies to ensure that the Final Draft Initial Study is appropriately located, advertised, published, and made available (including all applicable technical appendices and environmental supporting documents) concurrent with the City's public hearing

processes and in accordance with the mandatory public review period required by the CEQA Statutes and Guidelines.

TASK VI. PREPARATION OF THE FINAL DRAFT INITIAL STUDY (IS)

Upon receipt of the City's comments, questions, and recommended modifications, CASC will review and inventory all comments in both a comment matrix and associated tracked changes within the Draft IS/MND. Secondly, CASC will review and incorporate the City's comments to the IS/MND and return the Final Initial Study, to the City, within the time identified by the Project Scheduled attached herein.

TASK VII. MEETINGS & COORDINATION

CASC will participate in all necessary meetings with the City, the Project Proponent, and ancillary staff throughout the project development and through the adoption of the IS/MND. In addition, CASC is available to participate in the applicable Planning Commission and City Council Public Hearings.

SCOPE OF SERVICES & BUDGET (TYPICAL PROJECT)		
TASK NUMBER	**TASK NAME**	**BUDGET**
I	Project Kick Off Meeting	$1,500.00
II	Identify Existing Conditions	$2,800.00
III	Design review and Plan check	$8,500.00
IV	Preparation of Draft IS/MND	$4,500.00
V	City Provides Comments on IS/MND	$1,200.00
VI	Preparation of final IS/MND	$850.00
VII	Meetings & Coordination	$4,450.00
	TOTAL	***$23,800.00***

CASC Engineering and Consulting

CASC ENGINEERING AND CONSULTING
RATE SCHEDULE
January 1, 2016 – December 31, 2016

Civil Engineering	
President/Principal Engineer	$185
Director	$175
Senior Program Manager/Technical Specialist	$165
Program Manager	$155
Project Manager/Senior Engineer III	$150
Project Manager/Senior Engineer II	$145
Project Manager/Senior Engineer I	$140
Assistant Project Manager	$135
Project Engineer	$130
Senior Designer II	$125
Senior Designer I	$120
Design Engineer II	$115
Design Engineer I	$110
Designer II	$105
Designer I	$100
CADD Drafter II	$90
CADD Drafter I	$85
Technical Aide	$75

Environmental/Water Quality Services	
Director	$175
Senior Program Manager/Technical Specialist	$165
Program Manager	$155
Project Manager/Technical Specialist	$150
Senior Environmental Analyst/ Scientist III	$145
Senior Environmental Analyst/ Scientist II	$140
Senior Environmental Analyst/ Scientist I	$135
Environmental Analyst/ Scientist III	$130
Environmental Analyst/ Scientist II	$125
Environmental Analyst/ Scientist I	$115
Staff Analyst/Scientist II	$105
Staff Analyst/Scientist I	$95
Staff Assistant II	$85
Staff Assistant I	$75

Clerical	
Project Coordinator/Clerical III	$80
Project Coordinator/Clerical II	$75
Project Coordinator/Clerical I	$70
Project Assistant	$65

Planning	
Planning Director	$175
Senior Program Manager/Technical Specialist	$165
Senior Project Manager - Planning	$155
Project Manager - Planning	$135
Senior Planner II	$125
Senior Planner I	$115
Planner II	$105
Planner I	$95
Graphic Artist	$85
Associate Planner	$75
Planning Aide	$65

Landscape Architectures	
Licensed Landscape Architect	$155
Senior Landscape Designer	$130
Associate Landscape Designer	$110
Assistant Landscape Designer	$95
Landscape CADD Drafter	$80

Construction Management	
Resident Engineer	$150
Assistant Resident Engineer	$135
Field Inspector III	$115
Field Inspector II	$100
Field Inspector I	$85

Surveying and Mapping	
Licensed Surveyor/ Director	$175
Senior Survey Project Manager	$150
Senior Survey Analyst	$135
Senior Calculator	$125
Calculator II	$115
Calculator I	$105
Survey Analyst II	$95
Survey Analyst I	$85
Technical Aide	$75
Field Survey Crews	
Three Person Survey/GPS Crew	$265
Two Person Survey/GPS Crew	$240
One Person Survey/GPS Crew	$210

Litigation Support and Expert Witness shall be at 2.0 times the above noted hourly rates.

REIMBURSABLE EXPENSES

The following expenses will be billed at cost plus 15% unless otherwise noted:

Outside Services: Includes fees paid to sub-consultants, consultants, analytical laboratories, and other providers of services required for execution of the project.

Permits, Applications, and Fees: Includes fees for Notices of Intent (NOI), Notices of Termination (NOT), application fees, submittal fees, permit fees, and other fees required as part of the project and not paid directly by Client.

Reproduction Services: Includes blueprinting, copying, printing and plotting. In-house plots will be billed at $6.00 per sheet for each client set and for a final in-house review set. B&W / Color copies: $0.08 / $0.90 for 8.5 X 11 and $0.20 / $1.20 for 11 X 17.

Rental Fees: Includes rental fees paid by the firm, including required vehicles, equipment, and tools required to complete the work.

Commercial Delivery Services: Including Express Mail, Federal Express, UPS and independent courier services.

In-House Pick-Up and Delivery Services: When provided by the firm, these services will be billed at $48.00 per hour plus $0.66 per mile r o u n d trip, with no additional markup.

Travel Expenses: Includes travel expenses incidental to performance of the work, including airfare, parking, tolls, taxi, lodging, and etc. Vehicle mileage will be billed at a rate of $0.66 per mile with no additional markup. Travel time for professional and administrative staff will be billed per the hourly fee rate schedule with no additional markup and survey crews will be billed at $50 per hour, per 2 man crew.

Per Diem: Per diem for meals for overnight stays will be billed at $40 per day, per person.

Prevailing Wage: Projects and/or portions thereof designated by Client to be subject to Prevailing Wage shall be billed at the regular staff rate or the Prevailing Wage rate, whichever is higher. The Prevailing Wage rate shall be (2.28) X (Total Hourly Rate), where the Total Hourly Rate is from the Wage Rate Determination issued by California's Director of Industrial Relations for the locality and employee classification at the time the work is performed.

Waiver of Subrogation: When a Waiver of Subrogation for Workman's Compensation Insurance is required by the Client, the Client will be required to pay the additional **insurance premium. The approximate amount for the waiver is $250 per year.**

Client Initial _____

RATE SCHEDULE FOR PROFESSIONAL SERVICES[1]

Project Principal	$150.00-230.00
Project Managers	$80.00-230.00
Cultural Resources	$60.00-200.00
Engineer/Biologist/ Ecologist/Scientist	$95.00-200.00
Environmental Specialist/Planner	$55.00-190.00
Construction Monitoring	$70.00-190.00
CAD / GIS / Software Specialist	$70.00-190.00
QAQC/Technical Editor	$90.00-150.00
Staff Engineer/Biologist/Ecologist/Scientist	$65.00-135.00
Assistant/Associate/Staff Project Manager	$45.00-135.00
Project Assistant/Project Administrator/Project Accountant	$45.00-175.00
Lab Technician	$45.00-90.00
Word Processing / Production Coordinator	$45.00-90.00

Expense Reimbursement/Other:

1. Computer, facsimile, and telephone are included in the billing rates, and there is no additional charge.
2. Copies (color and black and white), equipment and other direct expenses are reimbursed with a 14% administrative handling charge (excluding per diem).
3. Subcontractor expenses are reimbursed with a 12% administrative handling charge.
4. Mileage is reimbursed at current IRS rate with a 14% administrative handling charge.
5. Per Diem, depending upon location, may be charged where overnight stays are required.
6. Expert Witness Testimony, including Depositions, is billed at time and a half.
7. When non-standard billing is requested, time spent by office administrative personnel in invoice preparation is a cost to the project and charged as technical labor.

[1] *Rates effective January 2016 and are subject to change. Depending on the project requirements, titles may vary from this general list.*