



Staff Report

May 8, 2018

TO: Honorable Mayor and Members of the Town Council
FROM: Brit Snipes, Town Engineer
DATE: May 8, 2018
RE: Civil Design Services Downtown Master Plan Phase 3

Recommendation

Adopt resolution awarding Civil Design Services for the Downtown Master Plan Phase 3 to Wood Rodgers, Inc. and authorizing the Town Manager to execute an agreement acceptable to the Town Attorney for providing such Civil Design Services in an amount not to exceed \$80,000.

Issue Statement and Discussion

On January 18, 2018 the Town released a Request for Qualifications (RFQ) for the Downtown Master Plan Phase 3. The RFQ was advertised on the Town website and the Loomis News.

On February 18th three firms submitted proposals. Town staff formed a committee and evaluated the proposals. The review committee determined that Wood Rodgers was the most qualified and best choice to design Phase 3 of the Downtown Masterplan.

CEQA Requirements

There are no CEQA issues involved with the contract.

Financial and/or Policy Implications

Funding for this contract will be from the Transportation Funds identified in the Public Works Budget.

Attachments

- A. Resolution
- B. Summary of Bids Received
- C. Wood Rodgers Proposal

TOWN OF LOOMIS

RESOLUTION NO. 18 - XX

RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF LOOMIS AUTHORIZING THE TOWN MANAGER TO ENTER INTO A CONTRACT FOR CIVIL DESIGN SERVICES FOR PHASE 3 OF THE DOWNTOWN MASTER PLAN WITH WOOD RODGERS INC. NOT TO EXCEED \$80,000

WHEREAS, the Town issued a Request for Civil Design Services for the Phase 3 of the Downtown Masterplan on January 18, 2018; and

WHEREAS, proposals were opened and evaluated on February 15, 2018; and

WHEREAS, Wood Rodger Inc. submitted the best Statement of Qualifications; and

WHEREAS, the Town Manager is now seeking authorization from the Town Council to enter into contract for Civil Design Services with Wood Rodger Inc.; and

NOW, THEREFORE BE IT RESOLVED, that the Town of Loomis accepts the bid by Wood Rodgers Inc of \$80,000 and hereby authorizes the Town Manager to execute an agreement acceptable to the Town for Civil Design Services.

PASSED AND ADOPTED this 10th day of April 2018, by the following roll call vote:

AYES:

NOES:

ABSENT: None

ABSTAINED: None

Mayor

ATTEST:

Charleen Strock, Town Clerk

Attachment B

Summary of Statements of Qualifications received

Consultant	Reviewer	AVG	Rank
KASL	BFS	88	2
	DS		
	CP		
Wood Rogers	BFS	92	1
	DS		
	CP		
Bennett Engineering	BFS	88	3
	DS		
	CP		

WOOD RODGERS

February 15, 2018

Mr. Brit Snipes
Town of Loomis - Public Works Department
3665 Taylor Road
Loomis, California 95650

Subject: Statement of Qualifications for Surveying and Civil Design Services for the Downtown Masterplan Phase 3

Dear Mr. Snipes:

Wood Rodgers, Inc. understands that the Town of Loomis (Town) seeks to establish a firm to provide as-needed surveying and civil design services for the Downtown Masterplan Phase 3. This Statement of Qualifications includes our pre-qualification documentation demonstrating our firm and team's in-depth experience in providing similar services.

To demonstrate our commitment to the success of this on-call contract, I, **Mark Rayback, PE, QSD/QSP**, a Vice President at Wood Rodgers, will serve as the **Principal-in-Charge, Project Manager, and Overall Point-of-Contact** for any projects under this contract. As a Vice President, I have the authority to contractually bind the firm as well as allocate additional staff resources to meet the requirements of any project needs as describe in the Scope of Work. I can be contacted at:

Mark Rayback
Wood Rodgers, Inc.
3301 C Street, Bldg. 100B
Sacramento, CA 95816
Direct: (916) 440-8131 • Cell: (916) 826-6420 • Fax: (916) 341-7767
Email: mrayback@woodrogers.com

REQUIRED STATEMENTS

Non-Substitution: The proposed staff herein will not be substituted without prior approval from the Town of Loomis.

Conflict of Interest Statement: Wood Rodgers has no recent, current, or anticipated contractual obligations that relate to similar work with or within the Town of Loomis which may have a potential conflict with our work on this project.

Non-Collusion: This Statement of Qualifications is hereby submitted without any previous understanding, agreement, or connection with any person, firm, or corporation submitting a separate Statement of Qualifications for the same project.

Indemnification and Insurance Requirements: Wood Rodgers is able to fulfill the indemnification and insurance requirements included as Attachment B of the Town's Request for Qualifications.

Non-Discrimination: The Non-Discrimination/Equal Opportunity Policy of Wood Rodgers is based upon our philosophy that people must be treated fairly and with dignity, and upon the belief that citizens in a free society have the right to self-determination without fear of discrimination as to personal preference or characteristics which are beyond their control. Wood Rodgers maintains an Affirmative Action Plan and has an excellent record of adherence. A full copy of Wood Rodgers' Equal Opportunity Policy is available and can be provided to the Town upon request.

DBE Goal: Wood Rodgers' will team with Area West Environmental, Inc. to fulfill the 3% DBE requirement for this contract.

We look forward to this great opportunity to contribute to the success of the Town of Loomis through the projects under this contract. I will contact you in the coming days to see if you have any questions or require any additional information from us. Additionally, you may also contact me directly at the contact information listed above at any time to discuss any additional details and information.

Sincerely,



Mark Rayback, PE, QSD/QSP
Vice President

Executive Summary

OUR APPROACH

Wood Rodgers' approach to managing and delivering projects is one of collaboration and communication. This begins with identifying appropriate project stakeholders and their respective needs at the earliest phase of the project. A strategy of addressing and communicating with these stakeholders will be established and implemented. This early and ongoing communication is vital to ensure that the project is not negatively impacted during delivery.

MANAGEMENT STYLE/FIRM ORGANIZATION

Wood Rodgers has a network-modeled structure that places all project responsibility on the Project Managers and Engineers. We take pride in the fact that our Project Managers are involved in all aspects of our projects. Wood Rodgers' firm organizational structure includes over 25 department Principals which cover all the various disciplines. A company organizational chart is located in the **Appendix** section of this proposal.

SIZE VARIATION OVER THE LAST 5 YEARS

From 1997 to 2006, Wood Rodgers experienced tremendous growth expanding from just civil engineering to a multidisciplinary firm. Ranked as the #1 Fastest Growing Company in the Sacramento region by the Sacramento Business Journal in September 2000, our success was unmatched in our local industry and we grew into one of the premier design firms in Northern California and Nevada. Even as revenues dipped as a result of economic downturn, our company remained profitable, as it has been each and every year. In response to the changing market and the shifting requirements of our current clients, we have adjusted to those needs by condensing our staff. This has allowed us to manage and regulate our workload more efficiently and effectively to better serve our clients.

Employee Size Variation
over the Last 5 Years.

Year Ending Date	No. of Staff
12/31/2013	180
12/31/2014	198
12/31/2015	204
12/31/2016	232
12/31/2017	251

Proposed Staff/Project Team

The successful delivery of a project depends on a team's proven ability to accomplish the scope of work and associated tasks, to perform together to achieve a common goal; while meeting the required schedule. Our organizational chart (**Figure 1**) illustrates our proposed team and their respective roles. Full resumes for all staff are included in the **Appendix** section.

Experience of Firm

Wood Rodgers has had the great opportunity to be a part of a number of great projects in the region, several of which have been awarded with the American Public Works Association Transportation Project of the Year. This local knowledge gives our team an advantage in that we are already very familiar with the community and the needs of the Town. A brief description of qualifications follows, and resumes are included in the **Appendix** section of this proposal.

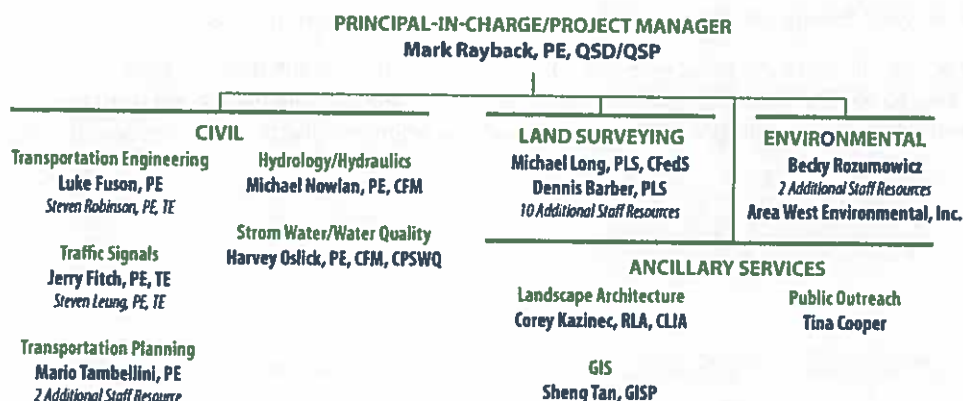
Mark Rayback, PE, QSD/QSP (13 years with firm) - Mr. Rayback has over 25 years of experience in the engineering and engineering management fields. Experience includes 14 years at Caltrans where he held several engineering and management positions including: Chief Environmental Engineer, and Chief of Staff. For the past 10 years, he has managed several challenging and politically sensitive infrastructure improvement projects that include new roadways/structures, interchange improvements, roadway widening, preparation of project initiation documents, project reports, water quality improvements, and public outreach for a variety of public agencies. His unique skills include that ability to work with stakeholders and clients balancing the needs of each project with a successful consensus.

Luke Fuson, PE (12 years with firm) - Mr. Fuson is a Transportation Design Engineer specializing in Roadway Improvements and Roadway Design with additional expertise in the preparation of Drainage Reports, Project Study Reports, and Project Reports. He has evaluated and designed intersections, interchanges, and roadway improvements, performed cost estimates, project specifications, project Drainage Reports, Project Reports, and Project Study Reports. He has work experience with Caltrans and the Cities of Sacramento,

Modesto, Elk Grove, Rancho Cordova, Salinas, Yuba City, Arroyo Grande, and San Luis Obispo.

Steven Robinson, PE, TE (13 years with firm) - Mr. Robinson is a Transportation Design Engineer and Transportation Planner specializing in Roadway Improvements and Roadway Design, with additional expertise in the preparation of Project Study Reports, Traffic Impact Studies, and Traffic Operations Analyses Reports. Mr. Robinson has evaluated and designed intersection, interchange, and roadway improvements, roadway geometrics and profiles, storm drainage facilities,

Figure 1: Project Organization Chart



signing and striping, stage construction/traffic handling, and has prepared construction plans, specifications, and cost estimates for several roadway widening and improvement projects throughout Central and Northern California.

Jerry Fitch, PE, TE (14 years with firm) - Mr. Fitch has over 30 years of engineering experience in roadway improvement project design experience of all types, including signalized intersections, multi-lane arterials, projects on California state highways, and local neighborhoods. He is also involved in all phases of the project process, from conceptual layout stages, to refinement of alternatives, traffic analysis, environmental process, right-of-way acquisition, electrical and conduit design, power source development, hardware placement, and utility coordination.

Steve Leung, PE, TE (15 years with firm) - Mr. Leung is a registered Civil and Traffic Engineer with 24 years of experience in transportation engineering with an emphasis in preparing PS&E for roadway and electrical design primarily in traffic signal, roadway lighting, interconnect, traffic monitoring system design. He has been responsible for electrical design in field visiting, utility coordination, preparation of conceptual layouts, reports, and calculations. He also prepares detail design of traffic signal hardware placement, underground conduit and conductor system, and signal phase operating sequences. Mr. Leung has also worked extensively with utility companies, general contractors, and government agencies for project coordination and construction support services. He also has extensive experience in roundabout and roadway geometric, signing and striping, traffic handling design, and traffic modeling.

Mario Tambellini, PE (5 years with firm) - Mr. Tambellini is a transportation engineer specializing in Transportation Planning, Travel Demand Modeling, and Microsimulation Modeling. He has evaluated stop controlled intersections, signal controlled intersections, roundabouts, and freeway interchanges for development and roadway improvement projects throughout central and northern California. Mr. Tambellini also has background training and experience in transportation system design, pavement engineering, and cost estimates.

Michael Nowlan, PE, CFM (16 years with firm) - Mr. Nowlan is a civil engineer with 29 years of experience in the planning and design of water resources projects dealing with storm drainage, flood control analyses, stream flow dynamics, and dam integrity analysis. Mr. Nowlan is knowledgeable in hydrologic and hydraulic modeling using HEC-1, HEC-HMS, HEC-2, HEC-RAS, UNET, EPA SWMM, MIKE SWMM, FLO-2d, MIKE 11/21 and MIKE FLOOD computer programs and is experienced in AutoCAD 2004/2008.

Harvey Oslick, PE, CFM, CPSWQ, QSD/QSP (4 years with firm) - Mr. Oslick has over 20 years of engineering and management experience, specializing in water resources with an emphasis on drainage, flood control and storm water quality. His experience includes project planning, design and construction, with specific expertise in hydrologic and hydraulic modeling, storm drainage master planning, and the analysis and design of flood control projects with multi-purpose objectives. For hydrologic modeling, he is experienced in the use of numerous software

programs, including HEC-RAS, HEC-HMS, XPSWMM and FLO-2D. He also has experience with the National Flood Insurance Program and the National Pollutant Discharge Elimination System (NPDES) requirements, including hydromodification management planning, in support of both public agency and private entity projects.

Michael Long, PLS, CFeds (18 years with firm) - Mr. Long has over 30 years of experience in surveying and mapping in the public and private sector. He has prepared over 400 ALTA/ACSM Land Title Surveys, which were used to aid in the design of commercial development throughout California, Nevada, Arizona, and Oregon. His work experience includes being a survey department manager overseeing boundary surveys, boundary line adjustments, easement preparation and mapping with local agencies. Mr. Long has experience in supervising field crews in all aspects of surveying.

Dennis Barber, PLS (18 years with firm) - Mr. Barber is an Associate Surveyor at Wood Rodgers and has been in the Central and Northern California Area working with and building strong relationships with state and local agencies for the past 20 years. He has built a reputation, along with Wood Rodgers, as being the most reliable and consistent firm when working in the production and processing of the surveying and mapping aspect of Land Development and Public Projects. Mr. Barber has experience in all aspects of surveying and mapping including, but not limited to, GPS Control Setup, Boundaries, Plats, Descriptions, Exhibits, Record Maps, Right-of-Way Mapping, Photogrammetric and Planimetric Mapping, and Cadastral, Topographic, and Bathymetric Surveys. Elements of survey have included waterways, all surface features associated with land development, roadways and highways, levees, Floodplain Mapping and others.

Becky Rozumowicz (18 years with firm) - Ms. Becky Rozumowicz's professional experience spans 20 years in natural resource restoration, permitting, compliance, assessment, and identification. She is the founder and president of **Area West Environmental, Inc.**, established in 2000. Ms. Rozumowicz regularly manages preparation of California Environmental Quality Act (CEQA) Initial Study/Mitigated Negative Declarations (IS/MNDs) and Environmental Impact Reports (EIRs) for public works projects including roadway improvements, bridge replacement, detention basins, and electrical distribution lines. She has prepared numerous restoration plans, permit applications, and reports and assessments to document compliance with CEQA, National Environmental Policy Act (NEPA), Migratory Bird Treaty Act, federal and state Endangered Species Acts (ESA), Clean Water Act (CWA), California Fish and Game Codes (CFG), and California Department of Transportation (Caltrans).

Corey Kazinec, RLA, CLIA (14 years with firm) - Mr. Kazinec is a landscape architect with over 14 years of experience in master planned communities, site developments, parks and recreation, open space corridors, and streetscape design. He is responsible for conceptual landscape design, design development, graphic communication, consultant coordination, irrigation and planting design, material selections, cost estimation, and preparation of detailed construction drawings.

Sheng Tan, GISP (10 years with firm) - Mr. Tan has 20 years of experience in GIS. He has honed his GIS skills in the engineering and environmental consulting industries as well as in the homebuilding industry. His GIS knowledge is well-rounded, encompassing various aspects of GIS analysis including geoprocessing, modeling, data creation and conversion, data management, data analysis and reporting, image rectification, map production and cartography. Mr. Tan's experience also includes designing and developing desktop and web-based GIS applications that interact with relational databases.

Tina Cooper (17 years with firm) - Ms. Cooper is the Marketing Manager with a degree in both Communications and Fine Arts. Her work history has included being an Account Executive at a public outreach firm, Design and Graphic Design Lead at a magazine/publishing firm as well as an Assistant to the Art Director at an advertising agency. Combining her degrees and previous work experience, she is able to create interpretive graphics and exhibits to successfully convey messages for both broad and targeted audiences. Also trained as a graphic designer, with a Certificate in Digital Publishing, her graphics experience ranges from publishing, advertising, corporate communications, public relations, and web page design.

Experience

Lincoln East 5th Street Sewer & Water Main Replacement - Placer County, CA (2016 - Ongoing). Wood Rodgers was retained by the City of Lincoln to prepare plans, specifications and estimates to rehabilitate or replace water and sewer mains on East 5th Street, construct drainage improvements, including new curb and gutter, reconstruct the roadway include signage and striping, and remove a Valley Oak Tree situated within the roadway. Wood Rodgers reviewed existing improvement plans, records, and data relating to the site. They coordinated design improvements with future City improvements, and considered alternatives to minimize cost while maximizing the life of the new facilities. Included with the plan preparation was site investigations including video inspection of the sewer system and geotechnical analysis for the utility and road improvements. Plan preparation included coordination with the City's Safe Routes to School program.

The work included outreach and community meetings with the affected residents and other stakeholders for which there were special considerations. Due to existing site features, including narrow access and a mature tree within the roadway, the City requested that Wood Rodgers work closely with the residents to minimize construction impacts to their daily routine, including provisions for access or temporary housing during construction. Reference: Roland Nuefield, City of Lincoln; (916) 434-2470.

City of Lincoln Safe Routes to School - Lincoln, CA (2015). Wood Rodgers provided overall Project Management, Planning, PS&E package development, surveying, agency coordination, public outreach, as well as providing bidding and construction support services, and assistance for this project located on the west side of the City. Based on Wood Rodgers' design, access was improved to four different schools; Lincoln High School, Phoenix High School, Glen Edwards Middle School, and First Street Elementary School. The site is in an older area of the City that was largely developed around the railroad expansion in the early

1900's and pedestrian facilities were largely not considered, and accessibility standards were not in place. Wood Rodgers used innovative "bulb-out" and retaining wall solutions to install many of the required pedestrian facilities. These solutions required outreach to local residences and impacted property owners, as well as design considerations to accommodate roadway drainage while minimizing impacts to existing facilities. Wood Rodgers was also selected to provide Preliminary Engineering and Final Design for two additional school locations, Carlin C. Coppin Elementary School, and Twelve Bridges Middle School. Improvements included the construction of sidewalks, sidewalk ramps, and replacement or relocation of landscape and irrigation, lighting, driveways and other ancillary items. Reference: Ray Leftwich, City of Lincoln; (916) 434-2457.

Colusa Route 20 Roadway Rehabilitation (EA 03-2F980K) - Colusa County, CA (Ongoing). Wood Rodgers is currently completing both the Project Approval and Environmental Document (PA&ED) and Plans, Specification, and Estimate (PS&E) design phases for the rehabilitation of one mile of State Route 20 in Colusa County through the Town of Colusa (PM 31.8/32.8). This State Highway Operation and Protection Program (SHOPP) project will rehabilitate the existing pavement to improve the ride quality and extend the life of the existing pavement by correcting the roadway profile and cross slopes. Due to multiple overlays over many years, the travelled way was built up and existing shoulder cross slopes vary between 8% and 16%.

Additionally, there are no existing underground drainage culverts so all existing drainage is captured in the shoulders and flows along the curb for substantial distance. This has led to localized drainage issues that must be corrected. This project will remove and replace all pavement and curb and gutter, install subsurface drainage, install detached sidewalk, install ADA compliant ramps, and relocate an existing traffic signal. Due to the flatness of the area Wood Rodgers developed strategies to retain drainage in an underground vault to minimize flooding and reduce right-of-way impacts. Specifically, traffic will be shifted, and all work will be completed along specific segments prior to beginning on a different segment. Additionally, as this segment of SR 20 serves several businesses and residences, Wood Rodgers has developed construction phasing plans that will minimize impacts. Finally, Wood Rodgers worked with Caltrans and City staff to identify right-of-way issues with curb returns and utilities so that these could be resolved early on in the process. The project is on target for on-time and on-budget delivery. Reference: Winder Bajwa, Caltrans District 3; (530) 741-4432.

Truemper Street Extension - Rancho Cordova, CA (Ongoing). Wood Rodgers, Inc. is currently preparing plans, specifications, cost estimates, and support services for an extension of Truemper Way from the intersection of Von Karman Street, Whitehead Street and Superfortress Avenue westerly to Taxiway "Delta 1" (Phase 1). This section of Truemper is approximately 2,000 feet in length and is to be designed to Sacramento County Department of Transportation "Arterial with Median (74 Foot Street)" standards. This project is designed to accommodate new building construction, new roadway pavements, and underground utilities for the Sacramento County Department

of Airports at Mather Airport (Airport), which primarily serves cargo and general aviation operations. The ultimate plan for the roadway is to extend and widen Truemper Way from the Von Karman Street, Whitehead Street and Superfortress Avenue intersection southwesterly to the existing Perimeter Road on the western edge of the airport. Reference: Scott Fujikawa, Sacramento County Department of Airports; (916) 874-6291.

Lincoln High School - Lincoln, CA (Ongoing). Wood Rodgers was retained to prepare surveys and PS&E for rehabilitation of the roadway and underground utilities for five streets near Lincoln High School. The project performed video analysis of sewer lines and review of PCI and visual inspection of roadways to determine the most appropriate strategy for rehabilitation. Plans included both above and below ground work, and considered project and traffic handling due to the proximity to the high school. Reference: Roland Nuefield, City of Lincoln; (916) 434-2470.

Capital Village Off Site Improvements - Rancho Cordova, CA (2008). Wood Rodgers provided engineering services for improvements to existing infrastructure to support the development of Capital Village, a new mixed-use neighborhood in the City of Rancho Cordova. The improvements included rehabilitation and modification of approximately 2.5 miles of arterial and collector roadways (International Drive, Prospect Park Drive, Disk Drive, Zinfandel Drive and Data Drive), widening streets along the Capital Village frontage. Reference: Albert Stricker, City of Rancho Cordova; (916) 851-8713.

Zinfandel Drive Extension - Rancho Cordova, CA (2015). Wood Rodgers provided a full range of services for this project to extend Zinfandel Drive from its existing terminus at the south end of the Villages of Zinfandel to Douglas Road. Project included the realignment of Eagles Nest Road to create a new four way intersection. Project identified the ultimate roadway alignment and considered numerous configurations for interim roadway facilities (utilities, roadway drainage, signal interconnect, pedestrian/bicycle facilities, etc). Preliminary grading and utility layouts were prepared to obtain clear understanding as to the constraints for construction in this corridor. Wood Rodgers also prepared a draft Drainage Improvement Report for the South Mather Roadways Feasibility Study which served as basis for the preliminary drainage channel layout from the overchute over Folsom South Canal to the crossing at Douglas Road. Our services also included regular correspondence and coordination with Sacramento Regional County Sanitation District, Sacramento County Water Agency, Sacramento County Department of Transportation, City of Rancho Cordova, and the Sacramento Housing and Redevelopment Agency. Reference: Craig Locke, Sacramento Housing and Redevelopment Authority; (916) 912-3082.

Sunrise Boulevard Widening - Rancho Cordova, CA (2007). Wood Rodgers prepared PS&E for closing a gap in the existing Sunrise Boulevard near White Rock Road intersection. The project widened northbound Sunrise Boulevard from two lanes to three lanes. The project included utility coordination/relocation, surveying, and construction staking, drainage design, and traffic handling design. The project also included some innovative solutions in dealing with utility conflicts. Specifically

a "false" curbs was installed so that existing manholes could remain in place. Reference: Albert Stricker, City of Rancho Cordova; (916) 851-8713.

Pacific Street Bike Path - Rocklin, CA (2015). The City of Rocklin's Pacific Street Bike Lane and Widening Project is noteworthy for both its roadway preservation qualities and its complete street features.

Pacific Street in Rocklin has a unique history in that this segment first served as the Lincoln Highway, the first road for automobile use across the United States. Subsequently, this segment served motorists as part of the US Highway 40. The roadway was still utilizing pavement from this period, estimated from 1916. Based on consultation from the Lincoln Highway Association (LHA), it was determined that the original historic Lincoln Highway roadbed was still in place below the existing PCC pavement. It was discussed that it would be desirable to leave this original roadbed undisturbed. To accommodate this, a "crack, seal, and overlay" rehabilitation strategy was adopted for the project. This strategy would allow rehabilitation of the roadway surface without impacting the original roadbed below.

This project converted the very vehicle central nature of Pacific Street by adding a Class I Bike Path on the west side of the roadway, Class 2 bike facility on both sides of Pacific Street, improved ADA access, and added drought resistant landscaping features. The project also enhanced the area around an existing city entry monument. This project has transformed Pacific Street to a multi-modal facility while preserving critical infrastructure. Reference: Justin Nartker, City of Rocklin; (916) 625-5500.

Caltrans District 3, SR 65 Pavement (SHOPP CAPM) - Placer, CA (2015). Wood Rodgers prepared the PS&E for SR 65 CAPM project (EA 03-4F0201) in Placer County from the SR 65/80 junction to approximately one-mile north of the Twelve Bridge Interchange. This Caltrans project includes the following features: rehabilitating over 50 lane miles of mainline and shoulder pavement, upgrade existing MBGR; installation of new and replacement of outdated overhead sign panels; installation of rumble strips for both outside and inside shoulder, and upgrading existing traffic delineations to current standards. During PS&E phase, Wood Rodgers prepared title sheets, typical sections, construction details, detour plans; quantity sheets for both pavement delineation and roadway, project estimate, and the standard special provisions. Capital Construction Probable Cost Estimate is approximately \$9 million.

Wood Rodgers was able to address and overcome key challenges such as the many scope creep and schedule slippages by tracking and planning project risks using a risk management matrix and developing products that were flexible to implement these anticipated changes. We were able to implement the scope creep without any additional budget and stay within Caltrans' project PS&E milestones. Reference: Chuck Laughlin, Caltrans District 3; (530) 741-4408.

"It's making me more and more happy that I'm working on this project and that we were able to work with Wood Rodgers. I already knew and liked Mark but having you work on this project is making the project get completed more effectively." — Chuck Laughlin (Task Order Manager) Caltrans District3



WOOD RODGERS

BUILDING RELATIONSHIPS ONE PROJECT AT A TIME

BOARD OF DIRECTORS

Mark
Rodgers

Pete
Tobin

Mark
Raybark

Jonathan
Kors

Steve
Strickland

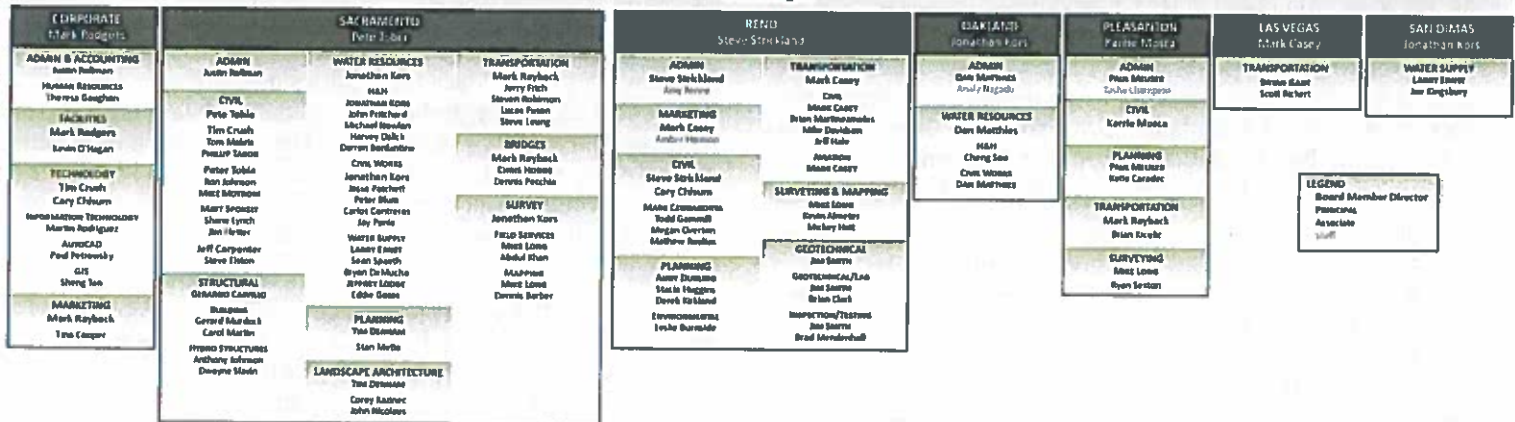
Cary
Chisum

Mark
Casey

Andy
Duffing

Karen
Mosca

PRESIDENT/CFO Mark Rodgers



LEGEND
Board Member Director
Partners
Associate
Staff

MARK RAYBACK, PE, QSD-QSP (PRINCIPAL-IN-CHARGE/PROJECT MANAGER)

Education: BS, Civil Engineering, California State University, Sacramento, 1991; Leadership Training Program, California State University, Sacramento, 2002

Registration(s): Registered Professional Engineer, California No. 52723; Registered Professional Engineer, Nevada No. 023156; Qualified SWPPP Developer/Qualified SWPPP Practitioner (QSD/QSP)

EXPERIENCE

Caltrans District 3, SR 65 Pavement (SHOPP CAPM) – Placer County, CA. Mr. Rayback is the Principal-in-Charge and Project Manager for the preparation of Plans, Specifications and Estimate (PS&E) for SR 65 CAPM project (EA 03-4F0201) in Placer County from the SR 65/80 junction to one-mile north of the Twelve Bridge Interchange. This project includes rehabilitating over 50 lane miles of mainline and shoulder pavement; upgrade existing MBGR; installation of new and replacement of outdated overhead sign panels; installation of rumble strips for both outside and inside shoulder; and upgrading existing traffic delineations to current standards. Mr. Rayback was able to address and overcome key challenges such as the many scope creep and schedule slippages by tracking and planning project risks and developing products that were flexible to implement these anticipated changes. He was able to implement the scope creep without any additional budget and stay within Caltrans' project PS&E milestones.

Pacific Street Bike Lane and Widening Project – Rocklin, CA. Mr. Rayback is the Principal-in-Charge and Project Manager for preliminary engineering and final design for construction of a Class 1 and 2 bike path and widening of Pacific Street from the Del Mar Avenue/ Dominguez Road intersection to the Loomis Town Limits in the City of Rocklin. The project will widen approximately 3,300 feet of Pacific Street from a two lane undivided road to a three lane road with a continuous dual left turn lane, rehabilitate the existing pavement, construct Class 2 bicycles on both sides of Pacific Street, construct a Class 1 bicycle path on the west side of Pacific Street, improve curb returns to meet ADA standards, and landscape the project limits. Mr. Rayback assisted in the City in completing the Right of Way certification process and E-76 using the Caltrans Local Assistance Procedure Manual.

Zinfandel Drive Extension, Sacramento County Housing and Redevelopment Agency – Rancho Cordova, CA. Mr. Rayback was the Project Manager for this project to provide sizing and design of the utility infrastructure for the South Mather Area, and integration of the design into DOT improvement plans for Zinfandel Drive Extension in the Mather Redevelopment Area. The project bisects a very sensitive habitat area that presented design challenges for both roadway alignments and construction access. The project was constructed in 2011.

Capital Village Offsite Improvements - City of Rancho Cordova, CA. Mr. Rayback provided QA/QC for the preparation of plans and estimates for widening of collector and arterial roads to Wood Rodgers, Inc. 18008

improve level of service, capacity, and safety on Zinfandel Drive, International Drive, Prospect Park Drive, Data Drive and Disk Drive in City of Rancho Cordova. Improvements included the addition of sidewalks, curb & gutter, bus turnouts, retaining walls, drainage and sewer improvements, and raised median islands, installation of dry utilities, upgrade of existing facilities for ADA compliance, pavement rehabilitation, traffic signal installation or modification at 7 intersections, and roadway signing and striping and provisions for future widening. The estimated construction cost of the project was \$7.2 million and was constructed in 2007.

Truemper Street Extension - Sacramento, California. Principal-In-Charge/Project Manager for the preparation of plans, specifications, cost estimates, and support services for an extension of Truemper Way from the intersection of Von Karman Street, Whitehead Street and Superfortress Avenue westerly to Taxiway "Delta 1" (Phase 1). This section of Truemper is approximately 2,000 feet in length and is to be designed to Sacramento County Department of Transportation "Arterial with Median (74 Foot Street)" standards. This project is designed to accommodate new building construction, new roadway pavements and underground utilities for the Sacramento County Department of Airports at Mather Airport (Airport), which primarily serves cargo and general aviation operations. The ultimate plan for the roadway is to extend and widen Truemper Way from the Von Karman Street, Whitehead Street and Superfortress Avenue intersection southwesterly to the existing Perimeter Road on the western edge of the airport.

Colusa 20 Rehabilitation – Colusa, California. Mr. Rayback is the Project Manager responsible for the PA&ED and PS&E for a pavement rehabilitation project in the City of Colusa on Route 20. Project elements, include: rehabilitating over one mile of pavement on SR 20 through the town of Colusa, upgrading the existing surface drainage to an underground system (over one mile of 48" underground drainage pipe), rehabilitating 34 curb returns to ADA standards and guidelines, landscape and meandering sidewalk facility. Project challenges have been; staging the project to not impact surrounding businesses and residences, complex drainage, congested corridor with many utility conflicts, and limited right of way.

QUALIFICATIONS: Mr. Rayback's summary of qualifications and experience is located in the Proposal section of this proposal.

LUKE FUSON, PE (TRANSPORTATION ENGINEERING)

Education: MS, Civil Engineering, California State University Sacramento, 2013; BS, Civil Engineering, University of California, Davis, 2005

Registration(s): Registered Professional Civil Engineer, California No. 73946

EXPERIENCE

Mather Rails to Trails Active Transportation Program (ATP) Grant Application – Rancho Cordova, CA. Mr. Fuson assisted the City of Rancho Cordova with the preparation of an ATP grant application for the first cycle of program funding for the Mather Rails to Trails project. As a result, the City of Rancho Cordova was awarded with a \$2.2 million dollar grant for an 8,400 linear foot Class 1 pedestrian and bicycle trail along an existing railroad corridor. The project will provide ADA compliant connectivity between a primary transit station and civil amenities such as the Veterans Administration Hospital, North Mather Business Complex, the Mather Field Airport, and many other commercial, institutional, and residential destinations.

Mather Rails to Trails Improvement Project – Rancho Cordova, CA. Mr. Fuson is the Project Engineer for the plans, specifications, and engineer's estimate for 8,400 linear feet of Class 1 pedestrian and bicycle trail. The project would convert an unused rail corridor to an ADA compliant Class 1 trail and will provide connectivity between a primary transit station and civil amenities such as the Veterans Administration Hospital, North Mather Business Complex, the Mather Field Airport, and many other commercial, institutional, and residential destinations. The project includes landscaping, striping and signage, trail lighting, a pedestrian traffic signal, ADA curb ramps, an existing traffic signal modification, and utility coordination and modification. The project includes coordination with the California Public Utilities Commission (CPUC) and requires five separate General Order 88-B forms to be completed for modifications to existing at-grade rail crossings. A portion of the path will be carried over the US-50 freeway via the existing Mather Spur Underpass. Wood Rodgers developed alternatives to construct the trail without removing the tracks from the underpass and is preparing final construction documents for the preferred solution, which will also include upgraded pedestrian fencing, stormwater drainage conveyance, and trail lighting on the structure. The modifications to the Mather Spur Underpass will be constructed under a Caltrans Encroachment Permit. The estimated construction cost is approximately \$1.7 million and it is scheduled for construction in 2017.

International Drive Extension, City of Rancho Cordova – Rancho Cordova, CA. Mr. Fuson was the Design Engineer for the extension of a new 6 - lane arterial roadway as part of a road and bridge project that connects Kilgore Road to Sunrise Boulevard, in Rancho Cordova. The project consisted of new roadway design, roadway widening, Class 1 bike path design, two new traffic signals, retaining walls, and included a bridge

spanning the Folsom South Canal (Bureau of Reclamation Facility). He performed the geometric layout, profile, drainage, signing and striping plans, quantity take-off, right-of-way and utility coordination, prepared the project specifications, and provided construction support. Mr. Fuson was involved with community outreach and assisted the City in securing American Recovery and Reinvestment Act funding. Mr. Fuson prepared the PS&E for this \$7.6 million project. Construction was completed in spring, 2011.

Northbound Sunrise Boulevard Widening – Rancho Cordova, CA. Mr. Fuson prepared the PS&E for the widening of northbound Sunrise Boulevard from two to three lanes. The project widened the pavement, constructed curb, gutter and sidewalk, improved drainage facilities, and made signing and striping improvements, and utility relocation. Construction was completed in summer, 2010.

Capital Village Offsite Improvements – Rancho Cordova, CA. Mr. Fuson assisted in the Roadway design for arterial and collector roads adjacent from a housing development. Tasks consisted of road widening, designing access intersections to the Capital Village housing and commercial development, retaining wall design, curb, gutter, and sidewalk design, drainage, utility coordination, striping, and demolition. He prepared a cost estimate for the proposed improvements.

SR 99/Elverta Road Interchange – Sacramento County, CA. Mr. Fuson provided design services for a new partial-cloverleaf interchange to replace an existing signalized intersection on a four-lane expressway section of State Route 99/70. Mr. Fuson was involved in various aspects of the Project Report and PS&E development including roadway design, drainage design, estimating, utility coordination, and preparation of the Drainage Report. The Project Report was approved in July 2009 and the PS&E was approved by Caltrans in April 2011. The project was constructed in 2013 at an estimated cost of \$24.9 million.

State Route 99 Rehabilitation Design-Build – Madera, CA. Mr. Fuson assisted in the design and plan preparation, including layouts, drainage, pavement delineation and construction details, for the complete rehabilitation of all freeway facilities over four miles of State Route 99 in the City of Madera. This was Caltrans' first design-build project.

QUALIFICATIONS: Mr. Fuson's summary of qualifications and experience is located in the Proposal section of this proposal.

STEVEN ROBINSON, PE, TE (TRANSPORTATION ENGINEERING SUPPORT) (10 YEARS WITH FIRM)

Education: BS, Civil Engineering, University of California, Davis, 2005

Registration(s): Registered Professional Civil Engineer, California No. 73207; Registered Professional Civil Engineer, Nevada No. 22622; Registered Professional Traffic Engineer, California No. 2621

EXPERIENCE

East 5th Street Sewer and Water Main Replacement Project Infrastructure – Lincoln, California. Mr. Robinson is the Project Engineer for this project that will replace sewer and water mains along East 5th Street, and construct pavement and drainage improvements. The original project scope was to replace all sewer and water mains with new pipes. Upon video inspection of the sewer main, it was revealed that the pipe was in good condition so a pipe liner will be installed instead of complete replacement. A large oak tree sits in the middle of East 5th Street, and reduces the width of East 5th Street to one lane. The City planned to remove the street as part of this project but the local community rallied to keep the tree. It was decided to pipe burst the portion of the existing water main near the tree to minimize excavation and potential impacts that could damage tree roots. The pavement on East 5th Street is approximately 50 years old and in need of rehabilitation, and only about 25% of the street has curb, gutter, and sidewalk. A new pavement section was designed, with an open space being left around the tree, and curb and gutter will be placed on the entire length of East 5th Street on both sides of the street. A continuous sidewalk will run along one side of the street.

Route 20 Colusa Rehabilitation PA&ED and PS&E – Colusa, California. Mr. Robinson is the Design Engineer for this 1-mile long roadway rehabilitation project along State Route 20 through the town of Colusa. The project will rehabilitate the existing surface to improve ride quality and extend the life of the existing pavement. Additionally, the project will replace curb and gutter and construct a new storm drain system that will collect runoff from the entire eastern side of Colusa. Existing sidewalk, driveways, and curb ramps will be reconstructed to meet ADA standards. All overhead utilities will be underground as part of a special district created under Rule 20. Construction is anticipated to begin in 2018.

White Rock Road Widening – Rancho Cordova, CA. Mr. Robinson is the Project Engineer for this City of Rancho Cordova project to widen five miles of White Rock Road from a two-lane rural road to a six-lane urban arterial for a future housing and redevelopment projects. The project will incorporate facilities for future underground utilities and will be designed so the project can be constructed in stages as the City obtains funding for construction. The project is located adjacent to the Aerojet Rocketdyne Superfund hazardous waste site and extensive dredge tailings from former gold mining operations, creating design challenges. Construction is anticipated to begin in 2016.

Zinfandel Drive Extension – Sacramento County/Rancho Cordova, CA. Mr. Robinson assisted in the design for this project extending Zinfandel Drive from its existing terminus at the south end of the Villages of Zinfandel to Douglas Road. The project identified the ultimate roadway alignment and considered numerous configurations for interim roadway facilities (utilities, roadway drainage, signal interconnect, pedestrian/bicycle facilities, etc). Preliminary grading and utility layouts were prepared to obtain clear understanding as to the constraints for construction in this corridor.

South Mather Roadways – Sacramento County/Rancho Cordova, CA. Mr. Robinson performed geometric layouts and prepared exhibits for several alternative alignments for the project to study over eight miles of new roads to support redevelopment of the former Mather Air Force Base.

Capital Village Offsite Improvements, Beazer Homes – Rancho Cordova, CA. Mr. Robinson prepared signing and striping plans and assisted in the roadway design for improvements to 2.5 miles of arterial and collector roads adjacent to the Capital Village housing development in Rancho Cordova.

Fite Residential Subdivision Traffic Impact Study – Rancho Cordova, CA. Mr. Robinson prepared a Traffic Impact Study report for a 127 single-family dwelling unit development.

US 50 Stateline Core/Loop Road Project – South Lake Tahoe, CA/NV. Mr. Robinson prepared a Project Study Report for the Tahoe Regional Planning Agency and Tahoe Transportation District which included analysis and geometric layouts of four possible alternatives to realign approximately two miles of US 50 around the casino entertainment and gaming center at the California/Nevada state line area of South Lake Tahoe. Obtaining approval required coordinating approvals from nine different local, state, and federal agencies, along with working with several local stakeholders.

QUALIFICATIONS: Mr. Robinson's summary of qualifications and experience is located in the Proposal section of this proposal.

JERRY FITCH, PE, TE (TRAFFIC SIGNALS)

Education: BS, Civil Engineering, California State University, Sacramento, 1987

Registration(s): Registered Professional Civil Engineer, California No. 34633; Registered Professional Traffic Engineer, California No. 1514

EXPERIENCE

Safe Routes to School Project – Lincoln, California. Mr. Fitch served as Project Engineer for this project which added curbs, gutters, sidewalks, and drainage improvements to areas surrounding the schools in the City of Lincoln. The project featured context-sensitive treatment of existing homes, trees, landscaping, and driveways. In selected areas, continuous frontage improvement bulb-outs were used creatively to solve driveway slope problems while preserving parking and avoiding right-of-way takes. The new facilities will be ADA-compliant, pedestrian friendly, safe, and attractive. The project was done very economically, making efficient use of existing improvements and drainage systems.

Grant Line Road at Sloughhouse Road-Eagle's Nest Road Intersection – Rancho Cordova, CA. Mr. Fitch served as Project Manager for the preparation of design plans to signalize a stop-controlled intersection with a history of having high accident rate. The skew horizontal alignment of one leg precluded signalization with the existing geometry. Mr. Fitch worked with County staff to design an offset into the intersection, using existing right-of-way, to prevent high-speed through movements, then developed special signal phasing, signing, and striping to permit "jog" through movements, while allowing other through and turn movements to operate normally. This solution avoided the construction and right-of-way expense of realigning the very low-volume, skewed leg of the intersection.

International Drive at Zinfandel Drive – Rancho Cordova, CA. Mr. Fitch designed traffic signal, street lighting, signal interconnect, and signing and striping plans.

International Drive at Prospect Park Drive – Rancho Cordova, CA. Mr. Fitch is responsible for traffic signal, street lighting, signal interconnect, and signing and striping plans. Design is currently undergoing.

North Natomas Area Traffic Signals – Sacramento, CA. Mr. Fitch prepared Design Concept Reports for each of several intersections in the developing North Natomas area in 2003 and 2004, describing overall design strategy for traffic signal, including present and future traffic volumes and "project" and "future" intersection layouts. He was also responsible for design of traffic signal, street lighting, signal interconnect, and signing and striping plans for each intersection, including:

- Bridgecross Way/Rose Arbor Way at Natomas Boulevard
- North Park Way at Natomas Boulevard
- North Bend Drive/Natomas Boulevard
- Northborough/Elkhorn Boulevard
- Sageview Drive/Elkhorn Boulevard
- East Commerce Way at Benefit Way

Auburn Boulevard/Kanai Avenue Signal Modification – Citrus Heights, CA. Mr. Fitch was the Consultant Project Engineer for preparation of Plans, Specifications and Estimate (PS&E) for modification of a traffic signal. The existing signal was causing excessive delay, resulting in diversion of traffic through private properties. The project added a fourth, offset leg to the "T" shaped intersection, which necessitated a special phase sequence to solve signal head visibility issues and insure pedestrian safety. This was accomplished in a way that was transparent to intersection users, solved access problems, and promoted intersection efficiency and freedom of movement.

Truxel Road at Interstate 80 Interchange – Sacramento, CA. Mr. Fitch provided Signal Design for a major interchange in the Natomas area of Sacramento. This interchange improved access to the Arco Arena sports complex and serves new development.

Freeport Boulevard/21st Street Two-Way Conversion Project – Sacramento, CA. Mr. Fitch was the project engineer for five traffic signal modifications and one new signal on this project. The new signal is at existing skewed RR grade crossing, creating multiple design and administrative challenges involving two RR companies, the California PUC, City staff, signal phase configuration, RR pre-emption, and striping and signing.

- Danbrook Drive/Regency Park Circle at Club Center Drive

QUALIFICATIONS: Mr. Fitch's summary of qualifications and experience is located in the Proposal section of this proposal.

STEVEN LEUNG, PE, TE (TRAFFIC SIGNALS)

Education: BS, Civil Engineering, University of California at Davis, 1994

Registration(s): Registered Professional Civil Engineer, California No. 70004; Registered Professional Civil Engineer, Nevada No. 024192; Registered Professional Traffic Engineer, California No. 2457

EXPERIENCE

City of Lincoln Safe Route to School Improvements – Lincoln, California. Mr. Leung prepared PS&E for the geometric, and drainage design to rehab existing sidewalk and curb ramp facilities in the City vicinity.

Arch Road at SR 99 Off-Ramp Modifications – Stockton, California. Mr. Leung provided signal and lighting design modifications to the northbound off ramp at this existing single point interchange. The project was completed under an encroachment permit with District 10. Project included widening of the off ramp, signalization of the right turn movement, geometric design, striping, detour plans, and landscape modifications. The project was design-build, and part of the larger California Health Care Facility project. The project was completed in 2013.

Dixieanne Ave "Green Street" Project - City of Sacramento, California. Mr. Leung was the Street Light, Signing and Striping designer for this project that included modification of existing street light system along the corridor. Relocated existing street lights and modified existing electrical system in accordance with the new sidewalk and landscape improvements. Project also included design for roadway traffic calming by installing bulb-outs, traffic circles, new traffic stripes and signage. The Construction was completed in 2009.

Kroy Pathway – Sacramento, California. Mr. Leung provided signage and street lighting design for this project to provide a 12'-6" wide paved Pedestrian/Bicycle Path connection between Kroy Street and 65th Street adjacent to the eastbound off-ramp from the US 50 freeway to 65th Street. The project provided complete Plans, Special Provisions, and Engineer's Estimate for the project, including path design, drainage design, signing and pavement delineation, path/street lighting, landscape planting and irrigation, special steel fencing, and installation of CCTV security cameras. The project was completed in 2010.

County of Sacramento Traffic Signals, Street Lighting, and Interconnect – Sacramento, California. Mr. Leung prepared PS&E for traffic signal installation, and modification for various intersections on Sunrise Boulevard; various intersections on Douglas Road; Douglas Road Interconnect; various intersections on Bradshaw Road; Bradshaw Road Interconnect; Red Light Camera in various County locations; Elkhorn Boulevard

Widening – Street Lighting; and Fulton Avenue Beautification – Street Lighting and Landscape Lighting.

City of Sacramento Traffic Signals, Street Lighting, and Interconnect – Sacramento, California. Mr. Leung prepared PS&E for traffic signal installation, modification, and signing and striping at various intersections in the City; 21st Street/Freeport Boulevard Two-way conversion; Sutterville Road at 21st and 23rd Street; Sutterville Road Interconnect; Red Light Camera in various City locations; and the Stockton Boulevard Beautification Project.

City of Roseville Traffic Signal – Roseville, California. Mr. Leung prepared PS&E for traffic signal installation for Sierra College Boulevard at Miner's Ravine Road.

City of Elk Grove Traffic Signals and Street Lighting, and Interconnect – Elk Grove, California. Mr. Leung prepared PS&E for traffic signal installation, modification, and signing and striping for: various intersections on Franklin Boulevard; various intersections on Wilard Parkway; various intersections on Power Inn Road; Sheldon Road at Whitehouse Road; and Elk Grove Boulevard at Bay Point Way Roundabout Lighting.

Caltrans Central Region, Districts 5, 6, and 10 On-Call – Fresno, California. Mr. Leung is providing design support for traffic, and electrical design services for the Caltrans Central Region. Projects have included safety projects, rehabilitation projects, and operational improvement projects. The first project was for the development of a Project Report and a PS&E for a safety project located in Monterey County. This project will upgrade or lengthen metal beam guardrail and install crash cushions or end treatments at over 50 separate locations. The second project is for the development of PS&E for a project that will upgrade 12 at-grade intersections to lengthen and/or construct left-turn channelization lanes along US 101 in Monterey County.

QUALIFICATIONS: Mr. Leung's summary of qualifications and experience is located in the Proposal section of this proposal.

MARIO TAMBELLINI, PE (TRANSPORTATION PLANNING)

Education: BS, Civil Engineering, University of California, Davis, 2010; Coursework, Computer Aided Drafting, Sacramento City College, 2011

Registration(s): Registered Professional Civil Engineer, California No. 85534

EXPERIENCE

SR 70 Feather River Expressway Project – Yuba and Sutter Counties, California. Study of the Feather River Expressway in Marysville, CA on Route 70, specifically focusing on the impact of the proposed SR 70 Feather River Expressway bypass. Mr. Tambellini is assisting in the development of Travel Demand Forecast Modeling memorandums and a Traffic Operational Analysis report analyzing the impact of three proposed project scenarios. The project involves the development of base and future year travel demand (TDM) models (using Cube/Voyager software, the Sacramento Area Council of Governments' SACSIM model, and the Butte County Council of Governments' regional TDM) and microsimulation models (using Vissim software) for all project alternatives. Mr. Tambellini is involved in all steps of TDM model development, including base year calibration/validation, creation of future year origin-destination trip tables, and creation of future year scenario networks. Mr. Tambellini is also involved in creation of base/future year microsimulation models, calibration of base year microsimulation models, and analysis of future year traffic operations and recommendations.

US 50 HOV Lane Project – Sacramento, California. Study of the proposed US 50 HOV Lane extension in Sacramento, CA, between I-5 and Watt Avenue. Mr. Tambellini assisted in the development of Travel Demand Forecast Modeling and Traffic Operational Analysis reports analyzing the impact of four proposed project alternatives for three proposed project options. The project involved the development of base and future year travel demand (TDM) models (using Cube/Voyager software and the Sacramento Area Council of Governments' SACSIM model) and microsimulation models (using Vissim software) for all project alternatives. Mr. Tambellini was involved in all steps of TDM model development, including base year calibration/validation, creation of future year origin-destination trip tables, and creation of future year scenario networks. Mr. Tambellini also assisted with calibration of base year microsimulation models, development of future year model scenarios, and extraction/analysis of future year traffic operations data. Mr. Tambellini also assisted with the preparation of the traffic section of the project's draft environmental document.

Yuba County SR 20 Project – Yuba County, California. Mr. Tambellini assisted with the preparation of project right-of-way maps. Mr. Tambellini created fee and temporary construction

easement lines based on the proposed project corridor and available parcel/right-of-way data. Mr. Tambellini estimated needed parcel take and temporary easement areas and displayed required right-of-way areas on figures.

Tuolumne County Regional Travel Demand Model Update – Tuolumne County, California. Mr. Tambellini assisted the Tuolumne County Transportation Council (TCTC) with an update of their Regional Travel Demand Forecast model as part of their upcoming Regional Transportation Plan (RTP) and General Plan (GP) updates. The TransCAD based model update involved modifying the base scenario to better match existing conditions land uses and roadway network geometries, incorporation of UPlan based land use forecasts for a number of future years and proposed alternative growth scenarios, and modeling of proposed Capital Improvement Program projects under future years. Mr. Tambellini developed balanced future year volume forecasts for the major roadways and intersections throughout the County.

US 50 South Shore Revitalization Project – South Lake Tahoe, California / Stateline, Nevada. Transportation plan for the development of a regional transportation system within the Tahoe Region, specifically considering the construction of a new alignment of US 50 near the California/Nevada border. Mr. Tambellini prepared a traffic operations analysis memorandum for four proposed loop road project alternatives. In order to create this memorandum, he forecasted traffic volumes for the project alternatives under the chosen study years, created microsimulation models of the alternatives using Synchro/SimTraffic 8 software, and analyzed planned roundabouts using Sidra Version 5.1 software. Additional work included obtaining and analyzing existing accident data, writing a discussion of the projected traffic operations obtained from the models, and updating the discussion of the existing and with-project conditions to reflect the current state of the project and setting.

Granite Bay Island Subdivision Traffic Impact Study – Placer County, California. Mr. Tambellini prepared a traffic impact study for a proposed 94 unit residential subdivision located off of Sierra College Boulevard in Granite Bay, California. The study included the creation of Synchro traffic models, analysis of project area intersection operations, and calculation of California MUTCD signal warrants.

QUALIFICATIONS: Mr. Tambellini's summary of qualifications and experience is located in the Proposal section of this proposal.

MICHAEL NOWLAN, PE, CFM (HYDROLOGY/HYDRAULICS)

Education: BS, Civil Engineering, Worcester Polytechnic Institute, Worcester, MA, 1989

Registration(s): Registered Professional Engineer, California No. 55954; Certified Floodplain Manager, US-08-03529

EXPERIENCE

California Department of Water Resources (DWR), Central Valley Floodplain Evaluation and Delineation Program (CVFED). The DWR retained the services of Wood Rodgers to provide engineering support services for floodplain delineation within the Lower Sacramento River Basin. For this seven-year, \$38 million contract, Mr. Nowlan performed the role of One-Dimensional and Two-Dimensional Hydraulic Modeling Quality Control Manager for modeling and floodplain mapping duties.

Gerber/Bradshaw Drainage – Sacramento County, CA. Mr. Nowlan managed and performed MIKE-FLOOD (two-dimensional) floodplain analysis for areas between Gerber Creek and Laguna Creek to identify the existing Interbasin Transfer floodplain and the mitigation necessary to allow for limited development for this Taylor Properties project.

Upper Laguna Creek Letter of Map Revision – Sacramento County, CA. For this Sacramento County Department of Water Resources project, Mr. Nowlan managed HEC-RAS and HEC-1 analysis and developed the supporting documentation, mapping and application forms for a request for Letter of Map Revision to revise existing conditions flooding on the Federal Emergency Management Agency's published maps along Upper Laguna Creek.

SR 101/Laurel Drive Interchange Improvements – City of Salinas - Salinas, CA. Mr. Nowlan provided hydraulics and drainage services for project to modify interchange, and adjacent intersections to improve operations and safety. Project widens two ramps to accommodate new turn lanes, modifies and adds traffic signals, and constructs new retaining walls to avoid environmental and right-of-way impacts. Project required close coordination with Caltrans and the City.

Cache Creek Flood Modeling – Woodland, CA. Mr. Nowlan oversaw all technical aspects and managed the development of this project for the city of Woodland to provide a detailed 2D MIKE FLOOD model to define the spill and levee removal floodplain envelope south of Cache Creek, affecting over 6,000 properties within the city of Woodland and Yolo County. Wood Rodgers has evaluated multiple scenarios for the City on a regional and localized scale and is submitting the model and associated mapping to Federal Emergency Management Agency (FEMA) under a Letter of Map Revision application.

Sierra Valley FEMA 100-Year Floodplain Evaluation and Delineation, Department of Water Resources - Sierra County and Plumas County, CA. Mr. Nowlan directed and managed the development of the HEC-HMS hydrology for the 588-square mile watershed study accounting for accumulated snow, peak

rainfall distributions, snow melt contributions, storm centering, areal reductions, soils/infiltration, routing and other factors. The hydrology report described the processes of gathering and analyzing all published references, methodologies, and gage data for establishing the 100-year peak flows, volumes, and timing contributions from steeper peripheral tributaries and valley portions of the watershed. Hydraulic models, including HEC-RAS and FLO-2D were utilized for routing and storage contributions to peak flow in critical parts of the valley. The ultimate client for this study is the Federal Emergency Management Agency.

Gibson Canyon Creek and North Tributary Watersheds Hydrologic and Hydraulic Evaluation – Solano County, CA. Mr. Nowlan managed all aspects of this study for the Solano County Water Agency which involved modifying existing HEC-1 modeling, obtaining and using updated topographic survey information and developing dynamic one and two-dimensional hydraulic analysis using MIKE FLOOD to determine the worst-case existing conditions floodplain envelope and the impacts of detention storage alternatives.

Twin Creeks Drainage Study – Solano County, CA. Mr. Nowlan managed all aspects of this study for the Solano County Water Agency which included development of a HEC-HMS hydrologic model for the Green Valley Creek and Wild Horse Creek watersheds as well as the development of a two-dimensional MIKE FLOOD hydraulic model to determine the extent of flooding affecting residential properties in the study area.

Hydrologic/Hydraulic Study – Solano County, CA. Mr. Nowlan managed field surveying/mapping and MIKE-FLOOD (two-dimensional) floodplain analysis and report development for determining existing flood extents and post-project alternative mitigation for several phases of construction proposed by Pacific Gas & Electric Company Vaca-Dixon Substation along Gibson Canyon Creek near Vacaville, California.

Caltrans Central Region On-Call for Districts 5, 6, and 10 – Fresno, CA. Mr. Nowlan is providing Hydraulic/Hydrology support for this California Department of Transportation (Caltrans) Central Region on-call contract to provide a variety of highway design services. Projects have included safety projects, rehabilitation projects, and operational improvement projects including the development Project Reports for a safety projects located in Monterey, Modesto and Placer Counties.

QUALIFICATIONS: Mr. Nowlan's summary of qualifications and experience is located in the Proposal section of this proposal.

HARVEY OSICK, PE, CFM, CPSWQ (STORM WATER/WATER QUALITY)

Education: MS, Civil Engineering/Water Resources, University of Southern California, 1993; U.S. Navy Nuclear Power School and Submarine Officer's Basic Course, 1988; BS, Civil Engineering (Cum Laude), University of Southern California, 1987

Registration(s): Structural Engineer, California No. 3165; Civil Engineer, California No. 35169

EXPERIENCE

North Area Recovery Station Preliminary Storm Water Management Plan – North Highlands, CA. Mr. Oslick served as Project Engineer for preparation of a Preliminary Storm Water Management Plan for the Sacramento County North Area Recovery Station (NARS), a waste transfer facility in North Highlands. The plan was prepared as part of planning for improvements at the site that include a new green waste/wood waste handling facility and other material handling improvements. This document provided baseline stormwater information and some concepts for improving the quality of storm water discharged from the site. The Plan included an analysis of the existing site detention basin and recommendations to modify the facility to better meet water quality objectives.

Documentation of Upper American River Project Unregulated Runoff – Sacramento Municipal Utility District. Mr. Oslick evaluated the available data from the complex system of reservoirs, powerhouses, stream gages and diversions within the South and Middle Forks of the American River to estimate unregulated runoff at numerous points above Chili Bar, upstream from Folsom Lake. Electric generation, turbine efficiencies, reservoir stages and evaporation, and other factors were used to estimate actual flows from which unregulated flows could be calculated. HEC-4 was used to develop missing data to complete the monthly estimates of discharge.

Municipal Stormwater Technical Assistance - Salinas, CA. Project Manager and Engineer in providing municipal stormwater technical assistance to the City of Salinas. Tasks included preparation of Stormwater Design Standards; regional flood control improvement analysis; review of stormwater control plans; evaluation of nexus analysis for impact fee discussions; updating drainage design standards; assisting with Report of Waste Discharge (ROWD); and addressing FEMA floodplain management issues.

Pleasant Grove Creek Watershed Updated Hydrology and Hydraulic Analysis – Roseville, CA. Mr. Oslick served as Project Manager for updated hydraulic modeling and new hydrology for this 46 square-mile watershed. Hydraulic models developed from a myriad of sources, from studies where the data was on printouts from HEC-2 models, to FEMA models, and a multitude of more recent projects. All this data was compiled into a single unsteady-state HEC-RAS model that includes 25 stream reaches and over 34 miles of stream channels. The hydraulic model uses outflow hydrographs from HEC-HMS through HEC-DSS

(data storage system). The project included creating a new hydrologic model for using HEC-1, HEC-HMS and a new toolbox that generates the model runs for multiple recurrence interval and storm centering scenarios following Placer County Storm Water Management Manual methodology. New watershed delineations were made and existing and future impervious area mapping were used to generate hydrologic parameters using GIS. Using an iterative process, the RAS model was used to develop stream routing parameters included in the HEC-1 and HEC-HMS models. The models were calibrated using rainfall and stream gage data from a 2005 storm. Multiple storm centers were run to identify which centers resulted in peak stage throughout the system and flood profiles were prepared for the 2-, 10-, 25-, 50-, 100- and 200-year flood events. Floodplain boundary maps were also prepared.

The Dunes on Monterey Bay Storm Water Infiltration Facilities – City of Marina, CA. Mr. Oslick served as Project Engineer for development of the storm water disposal system for redevelopment of approximately 400 acres of the former Fort Ord. The project involved ending direct discharge to the marine environment west of Highway 1 from areas that have complex existing drainage systems that cross under the highway by constructing infiltration basins designed to protect structures during a 100-year storm without release. The project included development of a percolation testing protocol and a process for interpreting test results for application to design. Most of the infiltration basins will be underground due to land values and the proposed high density of development. Long-term maintenance considerations include accessibility to the facilities and developing recommendations for water quality treatment devices that target pollutants that would degrade percolation rates. The design also addresses complex issues associated with phased construction and interfaces with adjacent properties.

Salinas Union High School District (HS#5) Stormwater Management Plan – Salinas, CA. Mr. Oslick served as Project Manager for a Storm Water Control Plan for the Salinas Union High School District High School #5 to plan and demonstrate how the proposed new high school on a 39-acre site would comply with the City of Salinas' Stormwater Design Standards. The Plan calls for use of pervious pavement, an infiltration gallery under the football field, bioswales, bioretention facilities, and a detention/infiltration basin.

QUALIFICATIONS: Mr. Oslick's summary of qualifications and experience is located in the Proposal section of this proposal.

MICHAEL LONG, PLS, CFEDS (LAND SURVEYING)

Education: Geodetic Surveying (Coursework), Defense Mapping Agency (Fort Belvoir, Virginia); Architecture and Civil Engineering (Coursework), Fresno City College (Fresno, California); Business (Coursework), De Anza College (San Jose, California)

Registration(s): Professional Land Surveyor, California No. 6815; Nevada No. 11186; Arizona No. 29880; Utah No. 351953-2201; Oregon No. 02884L5; Idaho No. 12639; Bureau of Land Management: Certified Federal Surveyor, No. 1566

EXPERIENCE

International Drive Extension, City of Rancho Cordova - Rancho Cordova, CA. Mr. Long managed the surveys for the 21st/Freeport Two-Way Conversion Project. Project was to convert two existing one-way streets to two way traffic. Project scope also includes addition of traffic calming devices, new signals, and ADA Compliance. Both streets are major routes with high traffic volumes. Additionally, 21st Street has an existing railroad crossing over UPRR and Sacramento Regional Transit tracks. Project required the approval of a State of California, Public Utilities Commission (PUC) Application. This project was subject to high traffic volumes at a major intersection, high definition surveys using 3D laser scanning was instituted so that no survey crews were exposed to danger from traffic.

City of Rancho Cordova Community Redevelopment Agency - Rancho Cordova, CA. Mr. Long supervised preparation of a legal description and exhibit map for creation of a district boundary of their Redevelopment District.

Zinfandel Drive Extension, Sacramento County Housing and Redevelopment Agency - Rancho Cordova, CA. Mr. Long is currently managing surveying for this project to provide sizing and design of the utility infrastructure for the South Mather Area, and integration of the design into DOT improvement plans for Zinfandel Drive Extension in the Mather Redevelopment Area.

Villages of Zinfandel, Elliot Homes - Rancho Cordova, CA. Mr. Long prepared boundary analysis covering 820 acres, supervised the preparation and processed 17 subdivision maps containing 1,300 lots.

21st/Freeport Two-Way Conversion Project, City of Sacramento - Sacramento, CA. Mr. Long managed the surveys for the 21st/Freeport Two-Way Conversion Project. Project was to convert two existing one-way streets to two way traffic. Project scope also includes addition of traffic calming devices, new signals, and ADA Compliance. Both streets are major routes with high traffic volumes. Additionally, 21st Street has an existing railroad crossing over UPRR and Sacramento Regional Transit tracks. Project required the approval of a State of California, Public Utilities Commission (PUC) Application. This project was subject to high traffic volumes and at a major intersection, high definition surveys using 3D laser scanning was instituted so that no survey crews were exposed to danger from traffic.

18th and L Street, CNM Construction - Sacramento, CA. Mr. Long supervised boundary survey; performed boundary analysis. He supervised and prepared topographic survey for a mixed-use residential development.

Wood Rodgers, Inc. 18008

City of Sacramento Mapping Services - Sacramento, CA. Mr. Long reviewed topographic survey of El Centro Road prepared by JTS Communities. He also reviewed and confirmed existing right-of-way of El Centro Road prepared by JTS Communities.

Metro Air Park, Private Owners Group - Sacramento, CA. Mr. Long prepared an easement matrix outlining current/proposed ownership interest in existing easements being extinguished within a 1,800-acre development.

The Bridge District, City of West Sacramento Redevelopment Agency - West Sacramento, CA. Mr. Long supervised the aerial topography of the project area, the as-built and pot holing location surveys for existing utilities to be abandoned, removed, and or relocated to the new street alignments for the redevelopment area around Raley Field. A Record of Survey Map was prepared and recorded to memorialize all the changes to the street alignments as well as monuments set.

Department of Water Resources - Floodplain Mapping, Sacramento, CA. Since April 2009, Mr. Long has been managing and working with the Project Surveyor supporting the survey team for bathymetric and hydraulic surveys, Mission Planning and Post Processing of Control for LIDAR acquisition and photo imagery for approximately 2000 square miles for Floodplain Mapping of the Lower Sacramento River System.

Jackson Highway, Stonebridge Properties - County of Sacramento, CA. Mr. Long supervised the team for a Right-of-Way Base Map and digital color orthographic photograph of Jackson Highway (SR16) from Florin-Perkins Road to Grant Line Road, approximately 9.5 miles.

Tahoe Regional Planning Agency US 50 Stateline Core/Loop Road Project - South Lake Tahoe, CA/NV. Mr. Long managed the surveys for this project converting two existing one-way streets to two way traffic. Project scope also includes addition of traffic calming devices, new signals, and ADA Compliance. Both streets are major routes with high traffic volumes. Additionally, 21st Street has an existing railroad crossing over UPRR and Sacramento Regional Transit tracks. Project required the approval of a State of California, Public Utilities Commission (PUC) Application. This project was subject to high traffic volumes and at a major intersection, high definition surveys using 3D laser scanning was instituted so that no survey crews were exposed to danger from traffic.

QUALIFICATIONS: Mr. Long's summary of qualifications and experience is located in the Proposal section of this proposal.

DENNIS BARBER, PLS (LAND SURVEYING)

Education: BS, Surveying, Pennsylvania State University, 1999

Registration(s): Professional Land Surveyor, California No. 8067

EXPERIENCE

Elverta Road/SR-99 Interchange, Sacramento County – Sacramento, California. Mr. Barber was the Project Surveyor and responsible for the day to day coordination of any survey or mapping effort needed to support the project. This project involves the construction of a new partial-cloverleaf interchange to replace an existing signalized intersection on a four-lane expressway section of State Route 99/70.

Dixieanne Ave: "Green Street" Project – City of Sacramento, California. Mr. Barber was the Project Surveyor for providing surveys as part of the scope that included the retrofit of an existing 6 block residential/commercial corridor to a more pedestrian "friendly" passageway.

Moss Landing Segment of Monterey Bay Sanctuary Scenic Trail – Monterey County, California. Mr. Barber was the Project Surveyor and responsible for the day to day coordination and any survey or mapping effort needed to support the project. This segment is approximately 4,200 feet long and crosses Elkhorn Slough on a new 380-ft-long bridge, passes through sensitive natural environment and cultural resources, and passes through the Moss Landing Power Plant. This project will be constructed in the State right of way, so it will require close coordination with Caltrans.

Hirschdale Road Bridge Replacement Project – Nevada County, California. Mr. Barber was the Project Surveyor for providing surveys for an approximate 1/3 mile stretch of rural 2-lane roadway in Nevada County concurrent with the replacement of the road's two bridges. This included surveys within the Truckee River and the Union Pacific Rail Road.

Oakland Waterfront Trail – US Audio/Capture Technologies Segment – Oakland, California. Mr. Barber was the Project Surveyor for providing surveys as part of the design services for the City of Oakland for a gap closure segment of the Oakland Waterfront Trail. The Oakland Waterfront Trail is part of the San Francisco Bay Trail, a planned 400 mile network of bicycle and hiking trails that will form a continuous ring around the Bay.

International Drive Extension – Rancho Cordova California. Mr. Barber was the Project Surveyor and responsible for the day to day coordination and any survey or mapping effort needed to support the project. This project includes the extension of a new 6-lane arterial roadway as part of a road and bridge project that connects Kilgore Road to Sunrise Boulevard.

Department of Water Resources – Floodplain Mapping – Sacramento, California. Mr. Barber worked as the Project

Surveyor supporting the design team with bathymetric and hydraulic surveys, Mission Planning and Post Processing of Control for LIDAR acquisition and photo imagery for approximately 2000 square miles for Floodplain Mapping of the Lower Sacramento River System. The hydraulic surveys included over 2000 cross-section surveys, over 250 hydraulic structures, and stream gage surveys as needed by the design team. All survey data was collected to the standard set by and the approval of DWR, FEMA, and the USACE. During that time, he worked side-by side with the Project Staff, Subcontractors and DWR. Participating in all pertinent meetings and conference calls. He has also attended all Survey Work Group Meetings to discuss and determine Scope and Procedures for current and future Task Orders.

Sutter Butte Flood Control Agency, Feather River West Levee Project – Sutter and Butte Counties, California. Mr. Barber is serving as the Project Surveyor for the Wood Rodgers' efforts in support of the project right-of-way team for 40 miles of levee improvements at the west levee of the Feather River between the Sutter Bypass and Thermolito Afterbay. Efforts include base map and boundary resolution, management of preparation and processing of Appraisal Exhibits, Plats and Legals for land acquisition and easements, Topographic, Bathymetric, and Construction Quality Control Surveys, and overall survey/mapping support of the project right-of-way team.

US Army Corps of Engineers, Sacramento River Bank Protection Program – Erosion Site Surveys – Sacramento, Sutter, and Yolo Counties. Mr. Barber worked as the Project Surveyor providing survey support to the USACE for the design of erosion repairs, protection and control measures. He managed the day-to-day operations of a complex workflow that included topographic, bathymetric, and tree surveys, together with the development with DTM surfaces for large areas along the river channel. The contract included 43 project sites totaling approximately 25 miles of bank surveys along with approximately 62 miles of bathymetric surveys. Notable erosion sites includes three along the Pocket/Little Pocket east levees, and two in the area of Pioneer Reservoir and the Sacramento Deep Water Ship Canal lock. This included coordination with the USACE, DWR, Caltrans, and a variety of Levee and Reclamation Districts.

QUALIFICATIONS: Mr. Barber's summary of qualifications and experience is located in the Proposal section of this proposal.

BECKY ROZUMOWICZ (ENVIRONMENTAL)

Education: BS, Soil and Water Science, University of California Davis, California, 1994

EXPERIENCE

Contra Costa County – Camino Tassajara Shoulder Widening, East of Blackhawk Drive to Finley Road – Contra Costa County, California. Principal and Senior Biologist. Managed preparation of a Natural Environment Study (NES), Historic Property Survey Report (HPSR), Archaeological Survey Report (ASR), and vernal pool invertebrate sampling. Prepared Biological Assessment and obtained a Biological Opinion for the project.

City of Elk Grove – Waterman Road Rehabilitation and Bike Lanes – Sacramento County, California. Principal and Senior Biologist. Coordinated with Caltrans District 3 and City staff to support the Natural Environment Study (NES), habitat assessments, and wetland delineation.

City of Lincoln – Auburn Ravine Overcrossing – Placer County, California. Principal. Prepared the Administrative Draft Initial Study/Mitigated Negative Declaration (IS/MND). Coordinated with biologists, cultural resource specialists, historians, Caltrans staff, and City of Lincoln staff to prepare the IS/MND, NES, HPSR, and ASR. Reviewed bridge for presence of bats and cliff swallows (*Petrochelidon pyrrhonota*). Conducted wetland delineation and California red-legged frog (*Rana draytonii*) habitat assessment.

Mesa Verde High School Bicycle and Pedestrian Connection Project and the Old Auburn Road Bicycle Trail Project – Citrus Heights, California. Principal. Managed all technical studies including a biological site assessment, preparation of a Natural Environment Study/Minimal Impact (NES/MI), and a wetland delineation for this Caltrans District 3 Local Assistance Project. Responsible for preparation of permitting packages, oversaw a tree survey and associated reports for the Mesa Verde Project, and oversaw cultural resource studies and reports for the Old Auburn Project.

Two Rivers Trail Project – Sacramento California. Project Manager. Completed Valley elderberry longhorn beetle survey report to support a Biological Assessment and NES for a Class I bike trail along the American River.

Vacaville Intermodal Project – Solano County, California. Principal. Prepared the IS/MND. Coordinated with biologists, cultural resource specialists, historians, Caltrans staff, and City of Vacaville staff to prepare the IS/MND, NES, HPSR, and ASR.

County of Fresno – Watts Creek Bridge Replacement – Fresno County, California. Project Manager for this Caltrans District 6 Local Assistance project involving the replacement of a bridge spanning Watts Creek in an unincorporated area of Fresno

County. Responsibilities include managing special-status species surveys; a farmlands assessment; a wetland delineation; a water quality technical memorandum; and a NES/MI report.

County of Sacramento – Dry Creek Parkway Trails Phase 1 Project – Sacramento County, California. Principal. Performed the wetland delineation and habitat assessment for Sacramento County's parkway trail project that included bike/pedestrian trail, equestrian trail, native plantings, and associated facilities. Conducted wetland delineation and prepared delineation report for this 3-mile, 300-acre study area.

County of Sacramento – Hazel Avenue Bridge Widening Project – Sacramento County, California: Principal. Performed wetland delineation; in conjunction with the Sacramento County Department of Review and Assessment Biologist, mapped and collected Global Positioning System location data for special-status species; and prepared the wetland delineation report.

County of Sacramento – Sacramento Northern Bike Trail Extension Project – Sacramento County, California. Principal. Performed the wetland delineation, dry-season large branchiopod, and wet-season large branchiopod surveys for the approximately 2-mile project; coordinated with Sacramento County Department of Review and Assessment; assisted Project Engineers with reviewing proposed trail alignments to maximize avoidance of special-status species; performed wetland delineation; field located special-status species habitat, vernal pools, and seasonal wetlands; and prepared wetland delineation report.

Caltrans District 4 On-Call Services – Cheney Gulch Storm Damage Repair Project (Post mile 7.55 on State Route 1) – Sonoma County, California. Principal and lead biologist. Conducted preconstruction surveys for nesting birds and California red-legged frog (*Rana draytonii*). Also conducted environmental awareness training and construction monitoring.

Caltrans District 4 On-Call Services – Napa, Solano, Marin, and Sonoma Counties, California. Principal. Performed biological support for the on-call contract with Caltrans District 4 (North Region). As part of this contract conducted species surveys, wetland delineation, preconstruction surveys, and construction monitoring for various road safety, widening, overcrossing, and storm damage repair projects.

QUALIFICATIONS: Ms. Rozumowicz's summary of qualifications and experience is located in the Proposal section of this proposal.

COREY KAZINEC, RLA CLIA (ANCILLARY SERVICES - LANDSCAPE ARCHITECTURE)

Education: BS, Landscape Architecture, California Polytechnic State University, San Luis Obispo, 2002

Registration(s): Registered Landscape Architect, California No. 5283 Nevada No. 925; Certified Landscape Irrigation Auditor (CLIA)

EXPERIENCE

International Drive Extension, City of Rancho Cordova - Rancho Cordova, CA. Mr. Kazinec was the lead project landscape architect providing landscape improvement plans and construction assistance for this fundamental roadway extension to International Drive near the outer edges of the City of Rancho Cordova. The overall scope of the project included landscape medians and a landscape corridor adjacent the residential community and connections to the bike trail adjacent to the south Folsom canal. One of the main project goals was to create a Gateway to the City by aesthetically enhancing the proposed bridge needed to span the south Folsom canal near the new intersection. Our design also incorporated the existing median enhancements along Sunrise Blvd. which were run down and unattractive. The planting and irrigation design are in accordance with California's water conservation requirements (AB 1881). The corridor is designed with a rock swale to capture and filter storm water run-off prior to entering the storm drain system. Project was selected as an APWA Project of the Year.

Anatolia Community, Lennar Communities, - Rancho Cordova, CA. Mr. Kazinec was the landscape architect responsible for conceptual design, material selection, design development, and graphic illustrations. This project developed streetscape design guidelines for a 1,200 acre development in Rancho Cordova. The project included conceptual designs for community and commercial entry monuments as well as street tree and planting selections for the landscape corridors.

Bridge District Infrastructure Improvements - City of West Sacramento, CA. Mr. Kazinec performed landscape design on the City's \$15 million redevelopment of the infrastructure system serving the Bridge District. The Bridge District is historically an industrial area which the City desired to redevelop into an urban commercial, office and residential area of 12.5 million square feet of building space. The existing infrastructure system was insufficient for the proposed redevelopment and master planning and design of a new system was required. Mr. Kazinec served as the project's lead landscape architect; performed the irrigation, planting and pedestrian enhanced pavement design; and prepared the plans, specifications and estimates for redevelopment. One of the challenges of the project was determining the preferred landscape character of this new urban core. The design team worked with the City to develop a master street tree plan for the overall streetscape network. Specific street trees were chosen to give each street type within the hierarchy its own personality and identity. The project was selected as an APWA Project of the Year for 2012.

21st/Freeport Two-Way Conversion Project, City of Sacramento - Sacramento, CA. Mr. Kazinec provided landscape design services for this project to convert two existing one-way streets to two way traffic. Project scope also includes addition of traffic calming devices, new signals, and ADA Compliance. Both streets are major routes with high traffic volumes. Additionally, 21st Street has an existing railroad crossing over UPRR and Sacramento Regional Transit tracks. Project required the approval of a State of California, Public Utilities Commission (PUC) Application. Project was completed in 2008 and was selected as an APWA Project of the Year.

Elverta Road/SR-99 Interchange - Sacramento County, CA. Mr. Kazinec prepared the conceptual landscape design and the landscape construction drawings for a new partial-cloverleaf interchange on a four-lane expressway section of State Route 99/70. The estimated capital cost of the landscape construction work is \$1.5 million. A key element was designing a landscape that is sustainable with low water use/drought tolerant plants.

Kroy Pathway - Sacramento, CA. Mr. Kazinec provided landscape and irrigation design for this project to provide a 12'-6" wide paved Pedestrian/Bicycle Path connection between Kroy Street and 65th Street adjacent to the eastbound off-ramp from the US 50 freeway to 65th Street. The project provided complete Plans, Special Provisions, and Engineer's Estimate for the project, including path design, drainage design, signing and pavement delineation, path/street lighting, landscape planting and irrigation, special steel fencing, and installation of CCTV security cameras. The project was constructed partly within state right-of-way for the US 50 off-ramp, and metal beam guardrail was installed along the edge of the off-ramp to protect trail users from errant vehicles. As such, an encroachment permit was secured from Caltrans District 3.

Aspen Village IV, Meritage Homes - Sacramento, CA. Aspen Village IV is a single family urban infill project located in the Rosemont Area of Sacramento. Mr. Kazinec provided community identification through entry monumentation and landscape enhancements. Two conceptual design alternatives were prepared and presented with the ultimate selection of the concept shown above. The design provides an identity and sense of entry through the clad pilasters, wrought iron vehicle and pedestrian gates, and landscape softscape. Project highlights include: project identity, enhanced paving, landscape lighting, and vehicular gates.

QUALIFICATIONS: Mr. Kazinec's summary of qualifications and experience is located in the Proposal section of this proposal.

SHENG TAN, GISP (ANCILLARY SERVICES- GIS)

Education: BA, Geography Middlebury, VT, 1996; BA, Environmental Studies, Middlebury, VT, 1996

Registration(s): Certified GIS Professional, No. 60619

EXPERIENCE

California Department of Water Resources (DWR), Central Valley Floodplain Evaluation and Delineation Program (CVFED). The DWR retained the services of Wood Rodgers to provide engineering support services for floodplain delineation within the Lower Sacramento River Basin. For this seven-year, \$38 million contract, Mr. Tan performed the role of GIS Technical Manager developing GIS workflows to streamline the production of 930 square miles of mapping products. The work flow included establishing modeling input parameters, linking one-dimensional modeling output to two-dimensional modeling inputs and exporting its output for map production, including animating the modeling results.

Natural Environment as Treatment Project, Caltrans District 3 – Lake Tahoe, CA. Mr. Tan conducted field data collection using handheld sub-foot accuracy Global Positioning System (GPS) units to identify areas where the natural environment can be used to treat surface runoff and meet the National Pollutant Discharge Elimination System (NPDES) compliance requirements. Over 40 miles of roadway along Lake Tahoe will be surveyed. Mr. Tan designed the methodology for the data collection incorporating the use of data dictionaries as well as streamlining the work flow process from field data collection to office map production. Repetitive routines were automated in Python to efficiently manage the data collection process. Visualization and analysis of the collected data will be performed using GIS along with photographs that depict each area and characteristics.

Arboretum, Lewis Homes – Sacramento County, CA. Mr. Tan utilized GIS for the environmental impact analysis of wetlands to identify the least damaging scenarios for this project which involves supervising the preparation of mapping, planning and engineering services for approximately 1,355 acres, located in the county of Sacramento. Python scripting developed by Mr. Tan was utilized to improve the efficiencies of processing the different alternative scenarios and maintain consistency with the results. Project scope includes development of improvement plans, including circulation, public services/facilities, infrastructure, resources, phasing and finance.

Demand Projections, CalAm – Sacramento, CA. Mr. Tan compiled various specific plans with proposed land use changes that will affect future water demand projections for the service areas of California American Water Company. Work involved standardizing land use categories from the different specific plans and calculating number of dwelling units based on proposed density and acreages.

Washoe County Parks - Washoe County, NV. Mr. Tan is the Project Manager for this project collecting data and photos using the Esri ArcGIS app on a smartphone to provide an assessment of existing park amenities in order to provide the client with the current condition of each park, an overall photographic catalogue of each park and associated amenities was collected. Our approach allowed for a very streamlined data collection process, saving hours of processing time after field work. As the data was collected digitally, reports can be created easily. A standardized report for each visited park was generated automatically. The report contains an overall map view of the park with its boundary, locations of the field photos taken, a list of available park amenities and displays the photos taken in the field. The information will help to inform planners during the development of recommendations to the County, as well as provide the County with an updated database of existing park amenities and photos.

Yolo County Precipitation Calculator - Yolo County CA. Mr. Tan provided GIS support for the development of an interactive design precipitation manual for Yolo County using ArcGIS. The design manual is used to calculate precipitation values based on a particular return period and storm duration. It is also used to determine the design value of the coefficient of variation that will be included in the run-off model. Mean Annual Precipitation data was obtained from Parameter-elevation Regressions on Independent Slopes Model (PRISM) climate mapping system. This custom tool was developed within ArcGIS using Visual Basic for Applications, ArcObjects and Microsoft Excel.

Levee Certification, Alameda County Flood Control and Water District – Oakland, CA. Mr. Tan developed the methodology and designed the database for the collection of data points along 14 miles of levees using a handheld GPS unit and digital camera. The digital photos will be georeferenced to correspond to its associated data point collected by the GPS unit. Mr. Tan was also responsible for organizing and managing all of the GIS data for the project. Using LiDAR data, triangulated irregular networks (TINs) and raster grid surfaces were built to create levee profiles and help identify sections that are levees versus high ground. The cross-section levee profile tool was developed using Python and ArcObjects

QUALIFICATIONS: Mr. Tan's summary of qualifications and experience is located in the Proposal section of this proposal.

TINA COOPER (ANCILLARY SERVICES- PUBLIC OUTREACH)

Education: BA, Communications, University of California, San Diego, 1994; BA, Fine Arts (Studio), University of California, San Diego, 1994

Registration(s): Professional Certificate in Digital Publications, University of California, San Diego Extension, 1995

EXPERIENCE

International Drive Extension, Public Outreach, City of Rancho Cordova, CA. Provided Public Outreach assistance to the City for a number of neighborhood and informational meetings. Coordinated with City staff and engineers for public presentation, that included the agenda, all exhibits, mailings, flyers, comment cards, sign-in sheets, and informational collateral.

Grantline 208 & Arista del Sol City Council Presentation – Rancho Cordova, CA. Ms. Cooper worked with project planner and owners (AKT Investments and Pappas Investments) in creating a presentation to the City Council for public comment and questions.

Sunridge 530 Presentation – Rancho Cordova, CA. Worked with the project manager to create a PowerPoint presentation illustrating the project details that was presented to the Board and project stakeholders for project approval.

Monterey Bay Sanctuary Scenic Trail – Monterey, CA. Ms. Cooper is currently providing public outreach and graphic communications to Monterey County for this section of trail along the west side of SR-1 on the frontage of the North Harbor.

Pedestrian Safety and Accessibility Master Plan – Anderson, CA. Ms. Cooper assisted with graphics and outreach support for this project. This project includes a complete inventory of existing pedestrian facilities based on data collection using GPS units and mapping using ArcGIS software. The resulting master plan will promote a pedestrian-friendly environment.

Urban Land Institute (ULI), Sacramento Chapter – Sacramento, CA. Ms. Cooper is currently providing graphic communications and support for brochures and newsletters for the Sacramento Chapter of ULI.

Tahoe Transportation District – Highway 50 - Stateline Transportation Planning Project. Worked with the client to create a PowerPoint presentation that was presented to the Board for project approval. Provided support graphics for public outreach efforts.

Flood Risk Maps, SAFCA, Sacramento, CA. Developing flood risk maps with client that was published in the SAFCA newsletter and sent to Sacramento County residences as part of an outreach effort.

Coldstream Specific Plan, Stonebridge, Sacramento, CA. Designed the specific plan for a project site located within the Truckee Development Area. Worked with client to develop layout design for document. Assisted in updating graphics and

providing graphic support for updates to illustration and all graphics in the specific plan. Helped to develop presentation materials and developing support graphics for public outreach events.

New Brighton/Aspen I – New Brighton Planned Unit Development (PUD) Guidelines – Sacramento, CA. Designed and developed layout design for the PUD guidelines document for this 232 acre site located within the City of Sacramento's eastern edge. Working with client to develop layout design for document. Assisted in updating graphics and providing graphic support for updates to illustration and all graphics in the specific plan. This document works in conjunction with the SPD Ordinance to guide the planning and design of individual projects within the Plan Area. It also provides a comprehensive overview of the design criteria and development standards required to implement the desired physical form of the community and its key features. Provided graphics and support graphics for public outreach and council meetings.

Pelendale, Wood Rodgers & The Hoyt Company, Sacramento, CA. Prepared exhibits representing the street striping and changes that was used in a public outreach effort and public meetings.

The Bridge District – West Sacramento, CA. Created supporting graphics to depict recommended routes to Washington District during construction for outreach efforts. The graphics were used in the City's printed collateral and on the website for public outreach.

N.E.A.T. (Natural Environment as Treatment) – Lake Tahoe, CA. Mr. Cooper provided exhibit and document support to Caltrans for this study that examined the roadside environment and identifies areas where the existing natural conditions provide adequate treatment of storm water runoff. Project required close coordination with Lahontan Regional Water Quality Control Board and Caltrans to help scope and prioritize Caltrans' Tahoe area water quality treatment projects.

State Route 16 Improvements – Sacramento County, CA. Ms. Cooper developed hand-out brochures for this project outlining community and stakeholder benefits of the project that were presented to council members, stakeholders and used in a public outreach effort.

QUALIFICATIONS: Ms. Cooper's summary of qualifications and experience is located in the Proposal section of this proposal.



February 15, 2018

Mr. Brit Snipes
Town of Loomis - Public Works Department
3665 Taylor Road
Loomis, California 95650

Subject: Estimated Cost of Design Services for the Downtown Masterplan Phase 3

Dear Mr. Snipes:

The Wood Rodgers Team has performed a preliminary review of the proposed project. Assuming that no additional Right-of-Way, that the project will be CEQA Exempted (no Technical Studies or Initial Study), and will be consistent with City and State Design Standards, we believe, preliminarily, that the Design and Environmental Documentation can be performed for a fee of \$70,000 - \$80,000. At least 3% or more of this total will be completed by Area West Environmental who is a DBE certified firm. Upon selection, our Team will meet with the City to fully gather all available information and background so that a more precise scope and budget can be developed, and also provide all required DBE documentation.

Should you require any additional information, please do not hesitate to contact me directly at (916) 440-8131; by cell at (916) 826-6420; or by email at mrayback@woodrogers.com.

We look forward to this great opportunity to contribute to the success of the Town of Loomis through the projects under this contract. I will contact you in the coming days to see if you have any questions or require any additional information from us. Additionally, you may also contact me directly at the contact information listed above at any time to discuss any additional details and information.

Sincerely,

Mark Rayback, PE, QSD/QSP
Vice President

