

STAFF REPORT

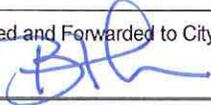
Date: Tuesday, September 13, 2016

To: Bryan H. Montgomery, City Manager

From: Kevin Rohani, P.E. Public Works Director/City Engineer

Subject: Agreement with BKF Engineers, Inc. for Engineering Design Services Associated with CIP Project Number 196 – Laurel Road Widening (Rose Avenue to Mellowood Drive) Project

Approved and Forwarded to City Council:


Bryan H. Montgomery, City Manager

Background and Analysis

The City's adopted FY 2016/17 Capital Improvement Program (CIP) Budget designates funding for various infrastructure repair and replacement projects. This is consistent with the City's goals to improve the quality of the City's public infrastructure and to enhance the quality of life for our residents.

Laurel Road is a major arterial street in Oakley and a key component of the City's transportation network. The widening of Laurel Road to four (4) lanes is also in accordance with the City's Long Range Roadway Plan and General Plan Circulation Element.

Staff prepared a formal Request for Proposal for selection of a design consultant which was publically advertised and published. A total of four (4) proposals were received in response to the City's RFP process. A team of Engineering and Planning staff performed an extensive review of the proposals and qualifications of the consultants who participated in this process. At the conclusion of this process, BKF Engineers, Inc. was identified with the highest rank and the most qualified firm to undertake this design project.

Staff has negotiated the final scope of work and design cost that is best suited for the project, as well as at a very competitive cost. BKF is the premiere civil and transportation engineering firm in the bay area with in-depth expertise in design and development of roadways and infrastructure improvement projects for a wide range of municipalities.

The scope of CIP 196 is to complete the roadway and median improvements on the north side of Laurel Road between Rose Avenue and Mellowood Drive. This work

includes design and construction of new curb, gutter, sidewalk, medians, street, landscaping with new street trees and lights. The south side of Laurel is currently under design and will be constructed by the developer as a requirement of their subdivision improvement agreement (Duarte Ranch Project).

Fiscal Impact

Approval of the resolution will authorize the City Manager to execute an agreement with BKF Engineers, Inc. for a cost not to exceed \$132,640. This cost proposal was negotiated by staff to insure the project design needs are accommodate especially utility potholing and investigative work which was not in the original scope of work in the RFP. The 2016/17 Fiscal Year Capital Improvement Program budgeted \$120,000 from the TIF Fund for this project. It is recommended that an additional \$12,640 be allocated from the TIF fund to fully fund this design project.

Staff Recommendation

Staff recommends that the City Council adopt the resolution approving the proposal with BKF Engineers, Inc. for design services associated with Project Number 196 – Laurel Road Widening Project (Rose Avenue to Mellowood Drive) and authorizing the City Manager to enter into the agreement.

Attachments

- 1) BKF Engineers Inc. Proposal
- 2) Resolution

Attachment 1

August 8, 2016

Kevin Rohani, PE, Public Works Director/City Engineer
City of Oakley
3231 Main Street
Oakley, CA 94561

Subject: Proposal for Design Services & Preparation of Plans, Specifications, & Cost Estimate For CIP No.196 - Laurel Road Widening Project (Rose Avenue To Mellowood Drive)

Dear Mr. Rohani:

It is with continued interest and excitement that we are responding to your request for proposals pertaining to the City of Oakley (City) Laurel Road Widening Project from Rose Avenue to Mellowood Drive, Project CIP 196. The following proposal highlights BKF Engineers (BKF) team's commitment, expertise, and resources necessary to prepare high quality design documents while keeping in mind the budget and schedule.

Established in 1915, BKF Engineers built its reputation on our ability to plan, design, and successfully implement projects in support of municipalities. We believe the following represent our essential qualifications:

- ✓ **Core Values.** BKF's core values integrate the principles defined in terms of: Manage, Define, Develop, and Validate. We manage expectations and stakeholders concerns. We develop options, alternatives, and deliverables that provide contextually based solutions. We validate the design and ensure that it meets the project goals and is a high quality document. BKF delivers projects that are economical, practical, and respective of the community they serve.
- ✓ **Experienced Team.** BKF's corporate structure utilizes permanent standing teams assigned and committed to specific projects aligning with their expertise. As Project Manager, Mr. Cosentino will lead the design and project coordination effort and will be supported by Ms. Bernardi as Principal-in-Charge. Mr. Cecilio has been assigned to the project as the QA/QC Engineer. All key personnel provided within this proposal are committed and available for the duration of the Project. The team is comprised of engineers and surveyors who are well versed in the specific requirements of your Project. They are engineers who have worked on numerous roadway widening and reconstruction projects that involve pedestrian and bicycle improvements, utility relocation, lane revisions, stage construction, surveying, right of way mapping, and coordination with land development projects.

Additionally, our subconsultant, PARIKH CONSULTANTS, will provide geotechnical engineering services for pavement sections for the proposed roadway widening. Additionally, BKF will also be supported by GATES + ASSOCIATES and AEC ENGINEERS for the landscaping and electrical design respectively.

In addition to our team qualifications, in the proposal that follows, we will present our understanding of the design services' needs, our straight forward and simple design approach to the project challenges, and our commitment to meet the schedule and budget.

BKF Engineers is proud of its record on client service and delivery of quality documents. This is confirmed by the fact that as a firm we have not been named in any past or pending lawsuits of litigations within the last two years.

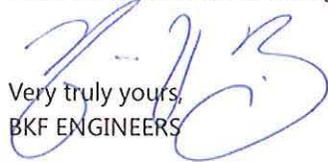
BKF Engineers has also submitted a proposal for CIP 191, Laurel Road and Rose Avenue Intersection and Signalization Project which is adjacent to this project. If the City chooses to award both projects to BKF Engineers it may reduce redundancies in the coordination effort for both projects while benefiting the public in providing an overall more cohesive project.

Rest assured, our team's enthusiasm, experience, and proactive approach will meet or exceed your expectations. BKF welcomes this opportunity to continue our working relationship with the City of Oakley by providing a comprehensive service approach to implement the Projects. Natalina Bernardi, PE, LEED AP, Principal and Vice President is fully authorized by BKF Engineers to contractually bind the firm and will be the contact for these Projects and she can be reached at:

BKF Engineers

4670 Willow Road, Suite 250
Pleasanton, CA 94588
Phone: (925) 396-7700
Fax: (925) 396-7799
Email: nbernardi@bkf.com

We look forward to discussing this project with you further.


Very truly yours,
BKF ENGINEERS

Natalina V. Bernardi, PE, LEED AP
Principal and Vice President



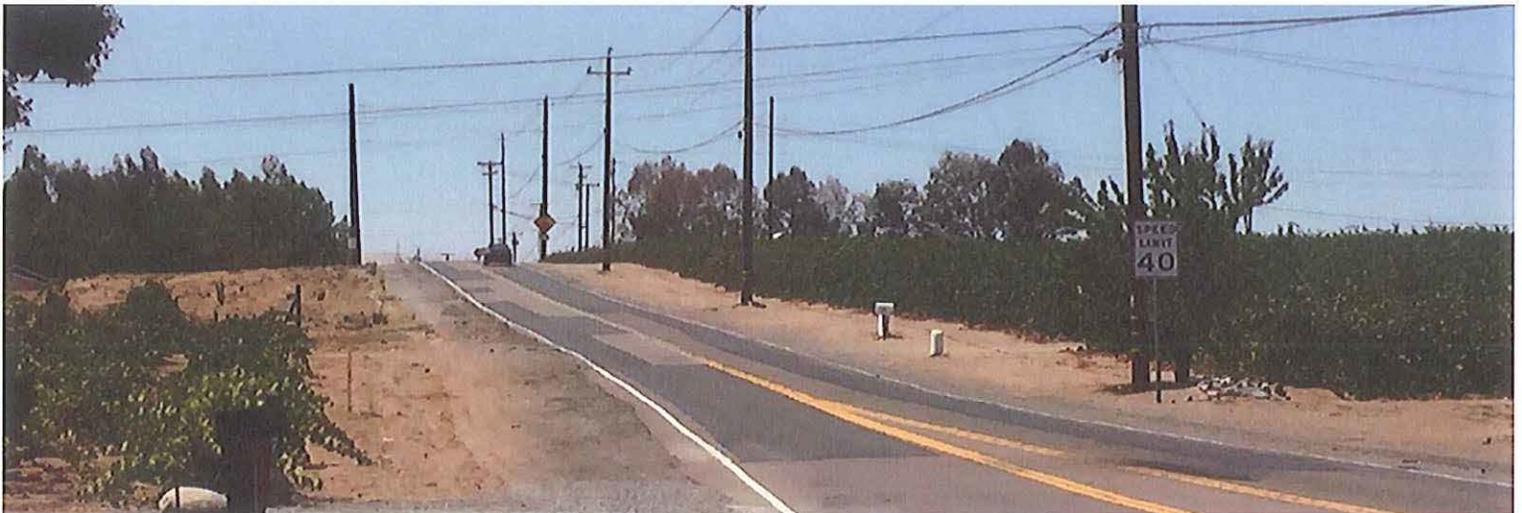
CITY OF OAKLEY

Proposal to Provide:

DESIGN SERVICES AND PREPARATION OF PLANS,
SPECIFICATIONS, AND COST ESTIMATE FOR CIP NO.196

LAUREL ROAD WIDENING PROJECT

(Rose Avenue To Mellowood Drive)



Duane Avenue Pavement
Reconstruction Project, Sunnyvale



Doane & Drew Avenues
Reconstruction Project, Sunnyvale



Highway 9/University Ave.
Intersection, Los Gatos



Los Altos Downtown Street
Improvements, Los Altos

August 8, 2016
BKF No. PP20167095

Natalina Bernardi, PE, LEED AP
t: 925.396.7700
e: nbernardi@bkf.com

BKF Engineers
4670 Willow Road, Suite 250
Pleasanton, CA 94588

Delivering Inspired Infrastructure



PROPOSAL FOR:

**LAUREL ROAD WIDENING PROJECT
(ROSE AVENUE TO MELLOWOOD DRIVE)**

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August 8, 2016

Kevin Rohani, PE, Public Works Director/City Engineer
City of Oakley
3231 Main Street
Oakley, CA 94561

**Subject: Proposal for Design Services & Preparation of Plans, Specifications, & Cost Estimate
For CIP No.196 - Laurel Road Widening Project (Rose Avenue To Mellowood
Drive)**

Dear Mr. Rohani:

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Additionally, our subconsultant, PARIKH CONSULTANTS, will provide geotechnical engineering services for pavement sections for the proposed roadway widening. Additionally, BKF will also be supported by GATES + ASSOCIATES and AEC ENGINEERS for the landscaping and electrical design respectively.

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We look forward to discussing this project with you further.


Very truly yours,
BKF ENGINEERS

Natalina V. Bernardi, PE, LEED AP
Principal and Vice President

PROJECT UNDERSTANDING

BKF Engineers (BKF) understands the City of Oakley (City) is seeking proposals from qualified firms to prepare construction-ready plans, specifications, and cost estimates (PS&E) for the construction of Laurel Road Widening, City Project CIP 196.

BKF will provide project management, preliminary design and final design services for the purpose of plans, specification and cost estimate (PS&E) ready for advertisement, bid, and award. BKF is supported by the following sub-consultants:

Gates+Associates (GATES) who will provide landscaping services for new planting and irrigation.

AEC Engineers (AEC) who will provide lighting/electrical engineering services for new lighting in the proposed median.

Parikh Consultants (PARIKH) who will provide geotechnical engineering service for the Project.

The BKF Team is streamlined and readily available to start immediately, has significant resources of specialized consultants and experienced personnel, and has a proven track record in delivering fast-tracked projects involving intersections layout, roadway widening and reconstruction, sidewalk installation, roadway grading and drainage system modification. BKF has an established history of providing local agencies with professional design and consulting services for the delivery of PS&E for construction. Our understanding of the Project is based on the following:

- » Widen Laurel Road to the north from Rose Avenue to Mellowood Drive, to meet the City's four lanes arterial roadway section requirement. Conform to west side of Mellowood Drive intersection.
- » Construct a new raised median and meandering sidewalk on north side of Laurel Road and install ADA-compliant ramps where applicable.
- » Install new storm drain system within the project limits. The proposed storm drain system will tie into the existing City storm drain system at the Laurel Road/Rose Avenue Intersection.
- » Remove or relocate existing utilities in conflict with the work within the Project area.
- » Install median planting, and planting along the sidewalk on the north side of Laurel Road. Provide irrigation for planting and bioretention areas.
- » Install street lights in the median.

- » Coordinate closely with Discovery Design Group for the planned Duarte Ranch development project on the south side of Laurel Avenue within the vicinity of this project.
- » Coordination with Laurel Road and Rose Avenue Intersection Improvement and Signalization Project (CIP 191).

Over the past 30 years, BKF Engineers has been involved in hundreds of intersection layout, signal modification and sidewalk installation design projects throughout the San Francisco Bay Area, from project inception, through conceptual design, and through construction.

As summarized in this section, with our solid understanding of the Project setting, constraints and opportunities, the BKF Team has developed a clear and comprehensive project approach for the Laurel Road Widening Project that includes:

- » Project Understanding
- » Project Approach/Methodology
- » Work Plan

Additionally, to supplement our Project Understanding, BKF has identified key issues highlighted in our key issue dialogue boxes, which summarize and focus on several project constraints, challenges, opportunities, and specific tasks or questions that will be addressed, coordinated, and reconciled during the Project.



Revise Profile to lower the crest vertical curve.

PROJECT APPROACH/METHODOLOGY

BKF proposes to implement its four step technical approach which integrates the following key components: **managing** the process; **defining** the critical constraints; **developing** a complete work plan and coordinated design documents; and **validating** constructability in providing timely project delivery. BKF's approach is comprehensive and considers all phases of the Project. It involves nurturing the relationships established with the stakeholders, following through with a comprehensive Scope of Work (SOW) executed by an experienced staff which is continuously monitored by the **Project Manager, Marcelo Cosentino, PE**, to ensure the delivery of an approved and environmentally cleared Project and providing PS&E documents for bid and advertisement. We developed the approach based on our years of experience and project implementation, which included ensuring that multiple tasks and project phases can be performed in parallel to maintain and accelerate project schedules. We believe this approach will be instrumental in delivering the City's Project in efficient manner.

STEP ONE

BKF will **manage** the process by understanding and obtaining the City's confirmation on our detailed Project scope, budget and schedule. This includes having committed and experienced personnel on the team led by our experienced Project Manager.

This step is undertaken at the initiation of the Project. During Task 1, Project Start-up & Site Investigation, of the SOW, management has identified specific tasks, ensuring that the work and commitments made during this step will be continuously monitored throughout the Project duration to provide a seamless and expedited project delivery.

The BKF Team is readily available, has significant resources of specialized and experienced personnel, and has a proven track record in delivering fast-tracked projects involving intersection modification, roadway and signal design. With BKF in house survey and traffic department, the project manager will ensure the fast track for preparation of project PS&E and associated documents for on-time delivery.

STEP TWO

The **definition** of the Project will first include having a thorough understanding of the Project via review of existing available Project data and confirmation of the City's current goals and objectives, including stakeholder's

concerns and expectations. With this, we will identify any obstacles or critical issues early in the design process so that they may be recognized, brought to the City with recommended solutions, and resolved with the City's concurrence.

In conjunction with the development of the Project SOW, budget and schedule, BKF's approach recognizes that the Project affects multiple stakeholders whose consensus is necessary to obtain project approval. To have the Project move forward, BKF's approach is to quickly review and assess the existing available information. This includes reviewing the existing work and ensuring that the design is still in compliance with current design standards and guidelines.

Key Issue #1 – IDENTIFY OBSTACLES OR CRITICAL ISSUES

BKF will identify any obstacles or critical issues early in the design process so that they may be recognized, brought to the City with recommended solutions and resolved with the City's concurrence.

The following are possible critical issues that have been identified for this Project,

- » Coordination with the CIP 191 and the Duarte Ranch development project on the South Side of Laurel Road.
- » Early coordination with utilities stake holders for possible utilities removal or relocation
- » ADA compliance for all pedestrian facilities – determine locations where retaining walls may be required along the back of walk.
- » MUCD compliant Class II bicycle lanes and signage or determine need/potential for buffered bike lanes
- » Determine right-of-way constrains to assist the City in coordinating with property owner on the north side of Laurel Avenue.
- » PG&E electrical service application for the proposed lighting and irrigation system along Laurel Road.
- » Type of LED luminaire for the median lighting to maintain proper lighting level required by MUTCD
- » Stage construction and traffic control measures during construction

With the objectives and goals known the BKF team will be able to engage the next step and to prepare conceptual design and address any issues before proceeding further with the project. Working continuously with the City and defining the Project, its goals, and objectives will allow seamless design refinement and development in the subsequent step, that can be validated and then used to engage stakeholders and solicit ideas, recommendations and comments for ultimate project improvements and approval.

STEP THREE

The **development** of the PS&E will require not only understanding the PS&E approval process, but providing thorough, expert, and experienced design services in refining and finalizing the ultimate design of the project.

With an approved concept plans BKF will work closely with the City as well as the affected 3rd parties (utility providers, stakeholders and businesses/residents) to ensure that all bases are covered in the approval PS&E.

To implement Step 3 of the approach, BKF has developed a detailed work plan which identifies the scope of work to be performed for each task reflected in our level of effort summary found at the end of this section. The development of the PS&E is simple and streamlined and will involve the following:

- » Task 1 - Project Start-up & Site Investigation
- » Task 2 – Analysis and Conceptual Design
- » Task 3 – Design Development - 35% Submittal Package; coordination with City and Duarte Ranch Development
- » Task 4 – Construction Documentation - 65% PS&E, 90% PS&E, 100% Final (Bid Set) PS&E

STEP FOUR

Our last step in our four-step approach, which is a continuous process throughout the Project, is the **validation** of the Project. BKF is committed to providing excellent services, and we stand behind our work. We have a fine-tuned our quality control and quality assurance (QA/QC) program overseen by our dedicated **QA/QC Engineer, Carmelo Cecilio, PE** for design, reports, plan, specification, estimate production, and project process efforts.

This validation and QA/QC process enables us to quickly develop practical approaches and also provides experienced input in cost estimating, constructability, end-user operations/maintenance, and value engineering. This same commitment of monitoring and validating is extended to other project components

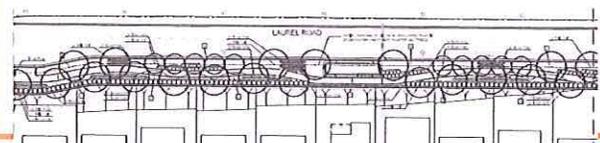
such as scope, budgets, schedules and cost estimates to minimize risks that may contribute to Project delay.

With BKF's four step project approach/methodology, a detailed work plan/scope of work is yielded that is continually monitored and evolving. We believe that partnering is both aligned and reinforced. This ensures that together with the City and BKF's leadership, along with the team's technical expertise in intersection layout, grading & drainage design, traffic signal modification, utility relocation, and right of way services, we will meet our goals and objectives.

Key Issue #2 – Coordination with Discovery Design Group (Duarte Ranch development)



- » Early coordination with Discovery Design Group (developer of south side of Laurel Road) is inherent to a cohesive design.
- » BKF will coordinate the survey control for the project with the established control of the Duarte Ranch development. Then, we will provide proposed grades to Discovery Design Group for coordination and adjust grades accordingly based on findings.
- » BKF will provide drainage system invert elevations for storm drain tie-in to Discovery Design Group for Duarte Ranch development drainage design.
- » BKF will coordinate with utility owners to relocate utilities in conflict with the work while keeping the utility owners informed of any changes that may impact services to the Duarte Ranch development.
- » BKF will coordinate with the City and Discovery Design Group to provide consistent bioretention areas along the north side of Laurel Road. These can be similar to the bioretention areas installed by the development.
- » Gates+Associates will coordinate with Richard Stover from Thomas Baak & Associates (developer's architect) for the planting and irrigation connections within the public right of way. Cross-overs may be required in the street for irrigation on the south side of Laurel Ave. It would be a proactive approach to coordinate the planting on the north and south sides of Laurel Road for a uniform look.



WORK PLAN

It is the Project's ultimate goal to prepare construction contract documents for the purpose of advertising, bidding, awarding and constructing, which comply with all applicable City design standards, requirements, and guidelines. With the project understanding including the recognition of possible risks, challenges, and resolution of key issues to achieve this goal, it is important to have a well-conceived work plan where the risks and challenges are managed, by addressing and mitigating. As an overall project approach to design the City's three projects, we have elaborated on those areas within each task that we will focus on and our approach to ensure project delivery.

Task 1: Project Start-up & Site Investigation

With the notice to proceed from the City BKF will attend a project kick-off meeting with the City to discuss project intent, the limits of improvements, overall project scope, budget & master schedule. BKF will obtain all civil and utilities as-built plans from the City, utility companies and the latest Duarte Ranch development plans.

BKF will perform topographic field surveys to confirm grades and physical features. Surveys will be based on City control, presumably NAD 1983 Coordination System and NAVD 1988 Vertical Datum. Additionally, our survey control will be compared to the control established by the Duarte Ranch development. Also, BKF will conduct independent field site visits involving site reconnaissance to verify existing conditions.

Also under this task, PARIKH will perform geotechnical field work to find R value for the existing soil and prepare a geotechnical report to provide pavement structure recommendations based on the traffic index provided by the City. Geotechnical coring will be performed along the shoulder area only. If after the preliminary design it is determined that retaining walls are required for the project, Parikh will provide a separate fee for performing deeper coring at the retaining wall locations.

Task 1 Deliverables:

- » Detailed CPM Schedule and Updates
- » Project Meeting Materials (Agenda, Minutes, Logs etc.) for all Coordination Meetings
- » Topographic Mapping
- » Existing Utility/Right of Way Mapping
- » Geotechnical report and pavement recommendation
- » Relevant Correspondence
- » Monthly Invoicing Format

Task 2: Analysis and Concept Design

BKF will gather all existing and new information and create a basis of design in Task 3 at the 35% Submittal Phase.

Key Issue #3 – CONCEPTUAL LAYOUT

BKF will prepare the conceptual layout with following key design elements,

- » Establish lane configuration for Laurel Road
- » Layout alignment for meandering sidewalk.
- » Coordination with the Project CIP 191 and the Duarte Ranch development project.
- » Evaluate the existing roadway profile along Laurel Road and provide recommendations for the profile improvements.
- » Perform truck turning analysis for trucks crossing the median area from driveways to determine the limits of the raised median.
- » Layout the proposed striping and signing.
- » See conceptual design exhibit included in our proposal.

Task 3: Design Development

At the inception of Task 3, A 35% level of Design and Development Package will be prepared under this task. This task will involve taking the necessary steps to assess, balance, evaluate, coordinate and integrate the various project components, including the data compiled in Task 1, standards and requirements, site conditions in order to develop, achieve, and refined the project's goal of pedestrian, bicycle, and vehicular operations and safety at the intersection. The resulting deliverable of this first part of this task will be a highly-coordinated and detailed updated, complete and inclusive plan set.

The following are several key design issues and considerations:

- » Grading and geometric design for roadway widening.
- » Driveway design and back of walk conforms at existing properties to determine need for retaining walls.
- » Prepare drainage memo for drainage system design.
- » Verifying Possible existing utilities in conflict with the proposed improvements.
- » Coordination with utility agencies for removal or relocation of existing facilities.
- » Storm Water Control/ Bioretention area calculations.

BKF will essentially revisit the conceptual design during this task and address any and all issues before proceeding further with the project, and specifically the PS&E.

35% Design and Development Package

The 35% Design and Development Package will include a title sheet, typical cross sections, layout/grading sheets showing the roadway layout of the proposed improvements, pavement work, proposed curb grades and driveway grades, catch basins, manholes and other storm drain design elements. As part of 35% Design and Development Package Signing and Striping plans will be developed showing the relationship of the guide, warning, regulatory, and traffic handling devices with respect to the proposed roadway improvements.

As part of the 35% Design and Development Package, a more detailed engineer's estimate will be prepared to reflect the design and construction details. This will be developed to assist the City with the verification of overall projects costs; a higher contingency (15% to 20%) will be used at this submittal, however, the 35% Design and Development Package estimate will be used as a basis to develop the schedule of bid items for all subsequent PS&E submittals throughout the Project.

Specific bid items and precise quantities will be taken off and directly linked and supported by the City technical specifications BKF will prepare a Drainage Report that documents existing conditions at the intersection. A base map will be provided that documents existing drainage conditions, Available information of project off-site drainage conditions will be evaluated to establish a recommended downstream water level to be used for sizing on- site improvements. Stormwater treatment criteria will be evaluated. Options such as biotreatment will be investigated. BKF will document flow to catch basins and sizing of stormwater treatment measures. A Draft Technical Memorandum will be prepared that documents facility sizes. A Final Technical Memorandum will be provided that incorporates City comments.

Task 3 Deliverables:

- » 35% Design and Development Package Including,
 - Cover sheet for Construction Plans
 - Existing Conditions Plan
 - Typical Cross Sections
 - Demolition Plans
 - Drainage/Utility Plans
 - Grading Plan
 - Layout Plans
 - Planting Plans
 - Constructions Details
- » Drainage Design Memorandum with Bioretention area calculations
- » Draft Project Specifications
- » More Detailed Construction Cost Estimate



Task 4: Construction Documentation

65% PS&E

BKF will attend a meeting with the City staff to review the 35% Design and Development Package comments. BKF will revise plans, estimate and specification per the City's comments and prepare the submittal for 65% PS&E.

BKF will perform an in-house QA/QC review of the documents submitted to the City. BKF's quality control review for the 65% submittal will include the review of the design package for compliance with the governing jurisdictional standards and completeness. The review will focus on ensuring that the plan elements are clearly delineated and coordinated with Project CIP 191 and the Duarte Ranch development project. The different project sheets will present the design in a common manner with no contradictions or variances.

For each submittal starting at the 65% PS&E, BKF will work with Gates and Associates and AEC engineers to develop planting, irrigation and lighting plans respectively.

90% PS&E

BKF will attend a meeting with the City staff to review the 65% PS&E submittal comments. BKF will revise plans, estimate and specification per the City's comments and prepare the submittal for Draft 90% PS&E.

Final 100% PS&E

For the Final 100% submittal, BKF will incorporate or resolve any remaining comments received as a result of the 90% submittal review. BKF will also conduct remaining site investigations. It is crucial that the design engineers are confident that existing field conditions have not changed since inception of the project and are depicted accurately in the bid-ready documents. Assumptions, in lieu of verifications, are not acceptable; BKF will walk the site with the final bid docs prior to submittal. All remaining aspects of the design will be finalized in order to prepare a completely checked and bid-ready set of documents. Schedules for utility relocations will be confirmed. The construction cost estimate will be updated and formatted to its final form. BKF will conduct a final quality control review on all documents to ensure that all design elements are thoroughly addressed prior to their submission to the City.

Task 4 Deliverables:

- » Design and Development Package for the 65%, 90%, 100% submittals,
 - *Cover/Signature Sheet*
 - *Typical Cross section Sheets*
 - *Existing Conditions Plan*
 - *Demolition Plans*
 - *Layout Plan*
 - *Drainage / Utility Plan*
 - *Grading Plan*
 - *Constructions Details Sheet*
 - *Storm Water Pollution Prevention Plan*
 - *Planting/Irrigation Plans*
 - *Lighting Plans*
- » Specifications
- » Detailed Construction Cost Estimate and Preliminary Bid List

Task 5: Stage Construction and Traffic Handling

Stage construction and traffic handling measures will be defined considered during the design phase in order to coordinate the staged construction activities with Project CIP 191 and the Duarte Ranch development project, establishing a plan for coordination of all construction activities. Providing clear direction to the contractor for traffic handling activities during construction which will minimize traffic impact and potential change orders.

Stage construction and traffic handling components will be considered in all phases of plan design development to ensure the constructability will not be overlooked.

BKF understands how construction work impacts the public and will make it our cause to minimize these impacts and work with the City to implement a construction staging strategy that looks at all aspects of construction. The key is two-fold: to not impose too many restrictions on the contractor so that he may complete the job as efficiently as possible while maintaining a capable, balanced level of access to those who live and work in this area. All traffic handling plans will be prepared in accordance with the City standards and MUTCD's guidelines.

Task 5 Deliverables:

- » Preliminary Stage Construction and Traffic Handling Plans
- » Final Stage Construction and Traffic Handling Plans

CIVIL ENGINEERING . SURVEYING . PLANNING

Delivering Inspired Infrastructure

Founded in 1915, BKF has been dedicated to being the leading engineering resource for California for the past century. We are organized as a California Corporation and provide civil, traffic and right of way engineering, surveying, and land planning services for municipalities, government agencies, developers, contractors, and campuses. BKF has enjoyed steady growth and increased capacity over the decades, currently employing a total of **389 staff members, consisting of 149 registered engineers/surveyors, located in 11 offices:**



BKF specializes in many areas of engineering and project management, including sustainable and complete street design, roadway reconstruction, hydrology/hydraulics, traffic signals, R/W engineering, utilities, Caltrans and federally funded projects and 3D laser scanning.

Most recently, BKF has delivered several roadway widening and reconstruction projects involving utility relocation, bicycle and pedestrian improvements, right of way coordination including coordination with developers, and incorporation of lighting and landscaping elements. We recognize that funding is scarce and finding innovative solutions are critical to delivering services our community's desire and are thus committed to developing designs that meet our clients' budgets and goals.

We value integrity, quality, leadership, and results. Our perspective comes from nearly 100 years of experience. We know that providing the best service requires unsurpassed attention to detail and unrivaled dedication to quality. Understanding the complexities of a project and the local agency's requirements come as standard practice. Understanding the complexities of your particular project is our specialty.



BKF collaborated with the City of Sunnyvale for reconstruction of Dane Avenue. BKF worked with the City to evaluate pavement conditions and determine a 10-year pavement design for the roadway. BKF modified the design specifications to coordinate with a future striping project. BKF design efforts and assistance with the E-76 process ensured that the funding for the project construction was preserved by meeting the accelerated design schedule.

CIVIL ENGINEERING

- Site Development
- Green / Sustainable Designs
- Streetscape and Roadway Design
- Pavement Rehabilitation /Reconstruction
- Parking Planning & Design
- Grade Separations
- Joint Trench & Utility Coordination

TRANSPORTATION

- Street and Intersection Design
- Complete Street Design
- Pedestrian & Bicycle Improvements
- Traffic Signals and Roundabouts
- Traffic Studies
- Highways and Interchanges
- Traffic Circulation
- Light and Heavy Rail

SURVEY

- GPS and Topographic Surveys
- Right of Way Mapping
- ALTA Surveys
- High Resolution Scanning
- G.I.S. Mapping
- Boundary Surveys
- Construction Surveying

WATER RESOURCES

- Storm, Sewer and Water Systems
- Storm Water Quality Compliance
- Erosion Control & SWPPP
- Pump Stations
- Detention Systems
- Hydraulic & Hydrology Studies
- Masterplanning, Design & Construction

LAND PLANNING

- Master Planning
- Zoning Modification
- Permit Application
- Contract Planning to Public Agencies

ENTITLEMENT SUPPORT

- Review Permit Requirements
- Hard/Soft Cost Estimates
- Environmental Review Support
- Tentative Map Preparation
- Scheduling
- Feasibility Studies
- Due Diligence Reports

SPECIALTY SERVICES

- Landfill Reclamation
- Wetlands Permits
- Project Management
- Differential Settlement Site Design
- LEED Documentation Support
- Construction Management
- Expert Witness

LANDSCAPE ARCHITECT: GATES + ASSOCIATES



GATES + ASSOCIATES is a 34-person Landscape Architecture, Urban Design and Land Planning firm located in San Ramon. Established in 1977, we became a Women-Owned Business Enterprise (WBE) in 2008. Our lasting success is due to our unique blend of strong design skills, sensitivity to the influence of environmental and cultural settings, understanding of construction realities, and true commitment to consensus building.

Having worked extensively with both public agencies and private sector clients, we have developed valuable insights to effective project management. We also find this mixed orientation extremely valuable in the development of successful land plans. We are able to make planning tools flexible enough to account for changing market conditions, while ensuring predictable public benefit. This knowledge allows us to create specific plans and master plans that are truly “implementable.” Our products are not vague planning policies but specific design recommendations. We understand the costs and realities of the market place.

LIGHTING / ELECTRICAL DESIGN: ALLIANCE ENGINEERING CONSULTANTS, INC.



ALLIANCE ENGINEERING CONSULTANTS, INC. is an electrical engineering firm established in Santa Clara, California. The firm provides a broad range of electrical engineering services for projects in streetscape, bicycle/pedestrian pathways, parks, transportation, infrastructure and parks.

The firm has the capabilities and experience to engineer and design street lighting, pedestrian lighting, traffic signal, site electrical and communications systems, medium and low voltage power distribution systems, traffic signals, building interior and exterior lighting and control systems, emergency power generation and distribution, energy management and control systems, life safety, security and communications systems and electric utility systems. Alliance Engineering Consultants, Inc. is a Disadvantaged Business Enterprise (DBE). Our California Unified Certification Program (UCP) file number is 032464.

GEOTECHNICAL ENGINEERING: PARIKH



PARIKH is a geotechnical engineering corporation that specializes in providing geotechnical services on public works, transportation and infrastructure projects for various Cities, Counties and State. PARIKH has worked on over 850 transportation, transit and public works related projects including roadways, bridges, highways, interchanges, pipeline projects, transit centers, culvert structures, creek improvements, retaining walls, soundwalls etc. They have prepared PSR and PA/ED level studies and PS&E phase reports. These include Preliminary Geotechnical Report, Preliminary Foundation Report, Geotechnical Design and Materials Report and Bridge Foundation Report. They have also prepared Phase I ISA studies and Geology/Seismicity sections for EIR/EIS documents. They have delivered over \$5 Billion in completed projects throughout California.

PARIKH is staffed by a seasoned team of 28 multi-disciplined, highly skilled and dedicated engineers, geologists, technicians and administrative personnel, each experienced in all phases of project development from conception to implementation through completion. Years of practical experience and technical knowledge allow PARIKH to meet client timetables, budgets, and unique project requirements.



MAIN STREET DOWNTOWN IMPROVEMENTS

Oakley, CA

BKF Engineers with its subconsultant Gates + Associates was chosen to lead the effort in developing the Downtown Vision Masterplan and engage the community for input and consensus. In order to provide traffic calming, the design included narrowing the roadway through the addition of landscaped medians, providing wide sidewalks for outdoor dining and pedestrian mobility, adding bulbouts and pedestrian median refuges at intersections and the installation of vertical elements within the median to provide interest and a sense of place.

The final master plan and Downtown Vision was presented at two public meetings and eventually a City Council meeting for approval and concurrence to adopt the vision for future development and work within Oakley’s Downtown.

After completing the Downtown Vision Masterplan, BKF assisted the City in its pursuit to capture funding for the reconstruction of Main Street from Norcross Street to 2nd Street which is the core of the downtown area. Given this effort, funding has been obtained, and BKF and Gates are currently working on the construction documents to implement a focal phase of the Downtown Vision Masterplan that would positively confirm that the Main Street is no longer a vehicular facility but a true complete street serving the community and revitalizing the area.

Project elements include roadway design, paving, bulbout and sidewalks, curb and gutter, median reconstruction, decorative paving, storm water treatment (bioretention areas), utility relocation, drainage design, sanitary sewer design, traffic signal design, signing and striping, seat walls, landscaping and tree wells, lighting, and gateway monument. The project will be constructed in three phases, the utility relocation and drainage improvements being the first phase (currently under construction), the streetscape from Norcross Lane to 2nd Street being the second phase and the improvements from 2nd Street to 5th Street being the third phase.

PROJECT DURATION
2014 – 2015

CURRENT PROJECT STATUS
Under Design

PROJECT REFERENCE
Mr. Kevin Rohani
City of Oakley, Public Works Director/City Engineer,
(925) 625-9194
rohani@ci.oakley.ca.us



DUANE AVENUE PAVEMENT RECONSTRUCTION

Sunnyvale, CA

The City of Sunnyvale obtained a Federal grant to improve the pavement conditions and pedestrian accessibility along Duane Avenue between San Juan Drive and 600 feet west of Lawrence Expressway. Project features for this one mile of pavement rehabilitation and reconstruction included roadway profile and cross slope correction, curb ramp reconstruction, curb and gutter reconstruction, utility adjustments, monument reconstruction, benchmark reconstruction, drainage design, manhole and drainage inlet adjustments, coordination with the VTA for relocation of bus stop shelter and protection of existing bus stops, coordination with development project on Duane Avenue.

BKF evaluated various types of pavement treatment including Hot-Mix Asphalt (HMA), Cold In-place Recycling, (CIR), and Full Depth Reclamation (FDR) and submitted a report with these findings to the City. Additionally, BKF prepared a roadway rehabilitation plan identifying limit of roadway overlay, location of dig-outs and areas designated for full reconstruction. To communicate this plan, BKF developed an exhibit with pavement sections and layout, identifying curb and gutter reconstruction, dig-out locations, reconstruction limits, grind/overlay limits, right of way, and curb ramp reconstruction. This exhibit established the project scope moving forward into the PS&E phase.

BKF visited the site with the City to obtain manhole information and later worked with City staff to evaluate modification of brick manholes along Duane Avenue. BKF expedited design and worked with the City to review the PS&E from 75% submittal through final bid documents. BKF worked with the City to coordinate with the planned future striping improvements on Duane Avenue.

As mentioned above, BKF coordinated with the City to review the final plans for Bicycle lanes on Duane Avenue from N. Fair Oaks to Lawrence Expressway.

PROJECT DURATION
2013 – 2016

CURRENT PROJECT
STATUS
Completed

PROJECT REFERENCE
Ms. Lilia Price
(408)-730-7543
lprice@sunnyvale.
ca.gov



DOANE AND DREW AVENUES RECONSTRUCTION

Mountain View, CA

City of Mountain View contracted BKF Engineers to provide plans, specifications, and estimating services for the Doane and Drew Avenues Pavement Reconstruction project as part of the Vassar Neighborhood street reconstruction. Project features included pavement reconstruction, curb ramp construction, curb and gutter reconstruction, utility adjustments, monument construction, manhole and drainage inlet adjustments and protection of utilities.

BKF Engineers provided survey services and worked with our geotechnical subconsultant to evaluate existing pavement and to determine an appropriate street pavement section for reconstruction of Doane and Drew Avenues. BKF also prepared a memo stating the various types of pavement rehabilitation including Hot-Mix Asphalt (HMA), Cold In-Place Recycling, (CIR), and Full Depth Reclamation (FDR) and provided a memo to the City to establish the most cost effective approach to street reconstruction.

As part of the PS&E submittal, BKF developed plans for lowering the roadway profile awhile conforming to existing conditions at the back of walk. Additional design included pavement sections, demolition, and layout, identifying curb and gutter reconstruction, pavement reconstruction limits, grind/overlay limits, right of way, sidewalk and driveway reconstruction, and curb ramp reconstruction. BKF expedited design and worked with the City to review the PS&E from 65% submittal through final design.

PROJECT DURATION
2014 – 2016

CURRENT PROJECT
STATUS
Completed

PROJECT REFERENCE
Mr. Andy Chang
(650)-903-6522
Andy.Chang@mountainview.gov



SUNNYVALE AVENUE/OLD SAN FRANCISCO ROAD INTERSECTION

Sunnyvale, CA

The City of Sunnyvale obtained Federal and State funding to improve the operations and safety of the Sunnyvale Avenue/Old San Francisco Road/El Camino Real intersections. The project also included the construction of a new, signalized southbound left-turn access from southbound Sunnyvale Avenue to Old San Francisco Road to alleviate traffic on Olive Avenue and provide southbound left turn access to the Palo Alto Medical Foundation.

BKF provided civil engineering design and support services which included obtaining NEPA and CEQA environmental certification, surveying, preparation of construction documents, traffic signal design, removal of the existing pork chop island, enhanced pedestrian and bicycle facilities, aesthetic treatment, drafting E-76 authorization documents and construction support assistance. Since the project was funded by a federal grant, BKF drafted all contract documents in compliance with federal and state regulations and procedures and facilitated and obtained project approval from Caltrans' Local Assistance Coordination. The design also required multijurisdictional approval and utility relocation coordination.

During the preliminary design, the impacts to the Sunnyvale Ave/ El Camino Real intersection required adding a second left-turn lane, eliminating the free- right turn and lane realignment through the intersection. In the development of the intersection geometry, the design was carefully evaluated for grading, stage construction, and pedestrian access and safety. The design was completed by maintaining pedestrian visibility and implementing ADA features without restricting vehicle movements through the intersections. BKF was also able to protect utilities in place with minor utility box adjustments.

PROJECT DURATION
2011 – 2014

CURRENT PROJECT
STATUS
Completed

PROJECT REFERENCE
Ms. Jennifer Ng
(408) 730-7430
jng@ci.sunnyvale.ca.us



HIGHWAY 9/UNIVERSITY AVENUE INTERSECTION PROJECT

Los Gatos, CA

The Town of Los Gatos obtained a State grant to improve the level of service and safety of the intersection of Highway 9 and University Avenue. The intersection operated at an unsatisfactory level of service creating long vehicular queues that exceeded the storage capacity of the intersection.

The project widened the existing roadway and narrowed the median to accommodate an additional left turn lane in the southbound direction for additional left turn storage capacity. In the northbound direction, a dedicated right turn lane was added to facilitate right turn movements onto eastbound Highway 9. Adding storage capacity to the intersection's turn lanes was a critical improvement since Highway 9 at University Avenue provides a direct connection to Highway 17. As part of the safety improvements, the existing direct access from Wright Avenue to Highway 9 was eliminated, and the pork chop island in the southeast quadrant was removed. New curb ramps and crosswalk realignment were added to make the intersection ADA compliant and improve pedestrian safety. Utility relocations and right of way acquisition was required at the southeast corner to accommodate the new signal equipment. The project modified the existing traffic signal to help improve the intersection's level of service, the signal phasing was upgraded to a full eight-phase signal with protected left turn movements in all approaches. BKF provided engineering and design services for the Project, including surveying, preparation of construction documents (PS&E), traffic signal modification design, right of way engineering and utility relocation. The intersection of Highway 9 and University Avenue is within state right of way, but is operated and maintained by the Town of Los Gatos. This required multi-jurisdictional approvals and coordination from both local and state agencies.

PROJECT DURATION
2010 – 2014

CURRENT PROJECT
STATUS
Completed

PROJECT REFERENCE
Mr. Jessy P
(408) 395-2859
jpu@losgatosca.gov



LOS ALTOS DOWNTOWN STREET IMPROVEMENTS

Los Altos, CA

BKF provided civil engineering, surveying and right of way services for the design for the First Street Streetscape Improvement Project in downtown Los Altos. BKF lead the design team and worked closely with the City and community to develop and refine a design that describes the unique character as well as promote future developments in the historic downtown area. The proposed work was to integrate this new design including pedestrian oriented facilities on First Street between Main Street and West Edith Avenue and four separate prominent intersections.

Key elements utilized in accomplishing these objectives included wider sidewalk areas, pedestrian circulation and safety improvements such as accented mid-block crossings, bulb-outs, and traffic-calming measures including a median and narrow travel lanes and the undergrounding of overhead utilities. BKF prepared alternatives to assist the community in evaluating the delicate balance of bicycle facilities, on-street parking, landscape enhancements, and outdoor dining areas in the narrow 50 foot wide right of way.

BKF worked with the City to assist in the transfer of ownership for the new traffic signal over to the County of Santa Clara. For the design of the new traffic signal at the intersection of First and Main in Downtown Los Altos we balanced the City's needs for decorative traffic signal and lighting design with that of the county's standards for an integrated and interconnected system to achieve an overall well-balanced design. The signal design also required the right of way acquisition at the corner of Main Street and First Street.

An important element of the project, was the detailed stage construction and traffic handling plans that were developed by BKF to ensure continuous access to businesses and accessibility for all modes of traffic.

PROJECT DURATION
2011 – 2014

CURRENT PROJECT
STATUS
Completed

PROJECT REFERENCE
Mr. Dave Brees
(650) 947-2888
dbrees@losaltosca.gov



HIGHWAY 1/HIGHWAY 9 INTERSECTION IMPROVEMENT PROJECT

Santa Cruz, CA

For the City of Santa Cruz and Caltrans District 5, BKF provided civil engineering design, surveying, and right of way engineering services to support the Project Approval and Environmental Document (PA&ED) phase, and is currently underway with the preparation of Plans, Specifications and Estimate (PS&E) for the construction of the intersection improvements at Highway 1/Highway 9, as well as the associated roadway widening improvements along Highway 9 and River Street. The project addresses the significant delay and operational congestion at the existing signalized intersection and roadway corridors, as well as the safety issues related to pedestrians and bicycles crossing Highway 1.

BKF Engineers facilitated and led a team to develop an environmental document (ED), traffic operational analysis report, drainage report, geometric concept plans and Project Report through Caltrans District 5. In order to improve bicycle/pedestrian safety and alleviate congestion at this intersection, BKF developed geometric alternatives and intersection modifications to include a Class III Bikeway (Bike Route), an additional vehicular lane, as well as ADA compliant pedestrian facilities. The project included working with and obtaining consensus from the City, Caltrans, AMBAG, and FHWA to facilitate both CEQA and NEPA clearances for the environmental document.

Existing improvements were evaluated and proposed improvements were added to improve the circulation of the traffic operations through this busy corridor. Two traffic signal modifications (Hwy 1/9, and Hwy 9/Encinal) are under design, including temporary signal conditions during construction/staging, and will be implemented as part of the Caltrans encroachment permit.

PROJECT DURATION
2004 – present

CURRENT PROJECT
STATUS
Completed

PROJECT REFERENCE
City of Santa Cruz,
Mr. Chris Schneider,
Assistant Director/
City Engineer, (831)
420-5422, cschneider@
ci.santa-cruz.ca.us



HIGHWAY 9 SAFETY IMPROVEMENTS

Los Gatos, Monte Sereno, Saratoga, CA

BKF Engineers led a team consisting of structural, geotechnical, traffic, and environmental designers/engineers, in preparing a master plan and construction documents for the Highway 9 Safety Improvement Project. The Project was a Multi-Phase/Jurisdictional Project that spanned 7 miles long along Highway 9 in Caltrans R/W through the Cities of Monte Sereno, Saratoga and the Town of Los Gatos.

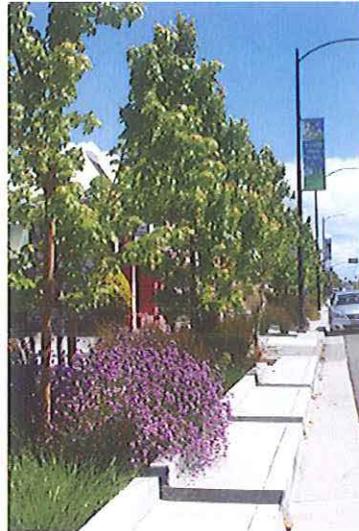
Highway 9 is a heavily utilized recreation corridor and a vital community corridor to access schools and businesses. As the focus of the project was to improve bicycle and pedestrian safety, bike lanes, pedestrian/bicycle paths, ADA compliant curb ramps, median refuge islands, in-pavement lighting, warning devices and striping enhancements were added to increase the safety for the non-vehicular users.

The existing highway meanders through heavily-wooded and vegetated residential areas. Due to the constraints of the existing cross section and hilly topography, BKF's design challenge was to identify areas along the corridor that were inadequate to support bicycle use and could readily receive minor widening pavement rehabilitation, and restriping improvements to provide the additional shoulder width. Sidewalks gaps were constructed along hillsides with walls that maintained the aesthetic qualities of the roadway. BKF conducted several field visits to identify choke points and constraints and prepared several value-analysis design concept alternatives balancing cost, safety-enhancement, non-standard design features, utility impacts, and environmental issues. BKF ultimately obtained community, City, and Caltrans consensus and proceeded with construction documents that addressed roadway improvements, traffic/ signalized intersections, storm drainage, grading, and pavement rehabilitation in accordance with Caltrans' standards and in compliance with federal requirements prescribed by grant funding. BKF also prepared supporting documents to procure the E-76 approval from Caltrans Local Assistance.

PROJECT DURATION
2006 – 2008

CURRENT PROJECT
STATUS
Completed

PROJECT REFERENCE
City of Oakley, Mr. Kevin
Rohani (Former Town of
Los Gatos City Engi-
neer), (925) 625-9194,
rohani@ci.oakley.ca.us



SAN PABLO AVE, EL CERRITO, CA

The phased streetscape project along this multijurisdictional corridor emphasizes transit access and neighborhood connectivity with improved pedestrian and bicycle thoroughfares. Sponsored by the S.F. Estuary Partnership, rain gardens were designed to collect urban runoff from the streets and sidewalks, and filter it before it enters the stormdrain system. Signage was created in three languages explaining their qualities.

Client: City of El Cerrito
Contact: Melanie Mintz
Tel: (510) 215-4339
Duration: 2005 - 2011
Status: Complete

CROW CANYON MEDIANS SAN RAMON, CA

Gates + Associates developed landscape design and construction documents for renovation of the median on Crow Canyon Road between Bollinger Canyon Road and Twin Creek Drive. Highlights include a bay-friendly plant palette, permeable pavers and organic mulch.

Client: City of San Ramon
Contact: Jeff Gault
Tel: (925) 973-2809
Duration: 2013 - 2014
Status: Complete



COLLEGE OF ALAMEDA ENTRY, ALAMEDA, CA

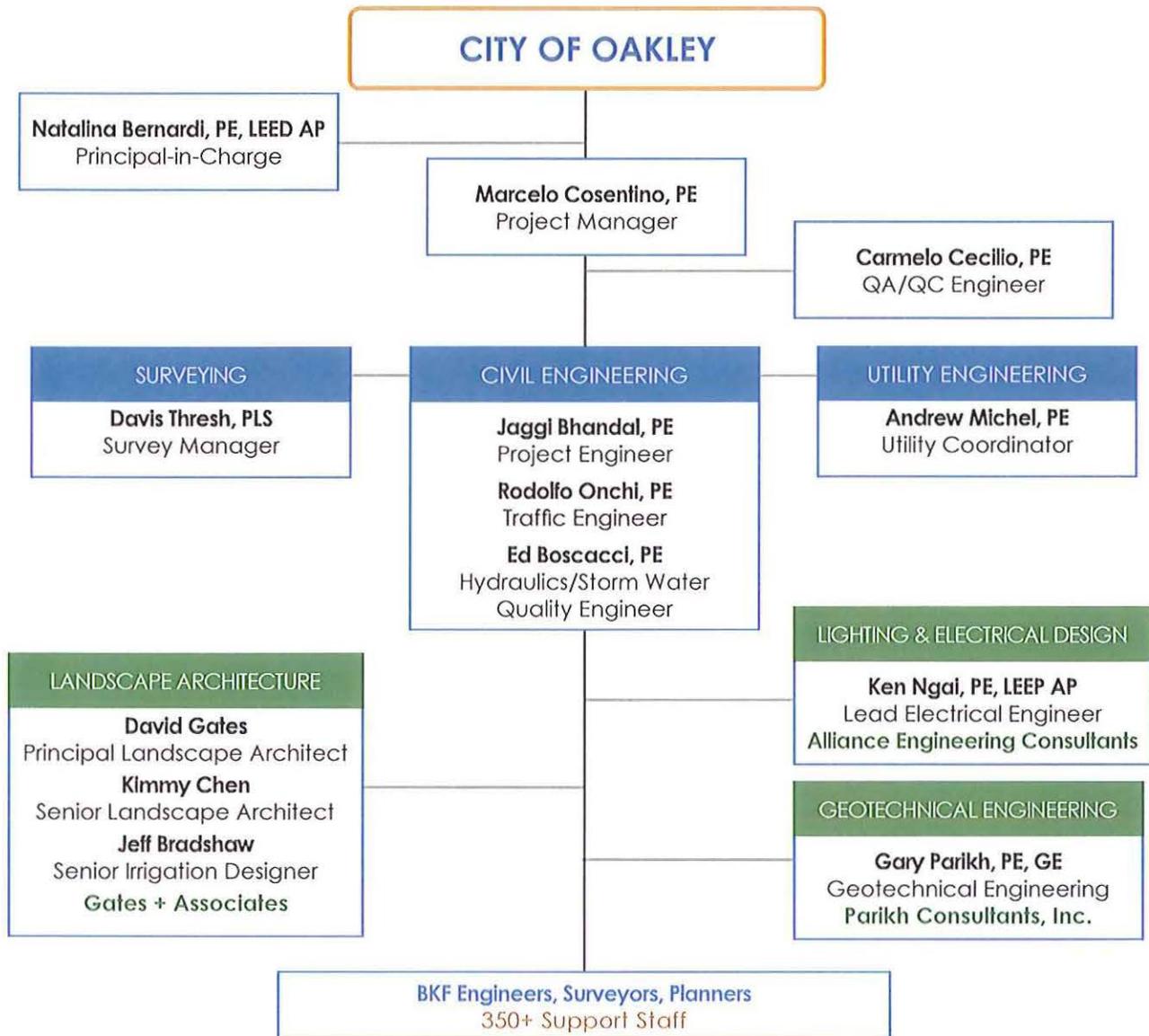
The Gateway is the entry corridor to Alameda via the tunnels from Oakland. Identity monuments, signage and lush streetscape highlight the arrival experience. We worked with the College of Alameda, downtown merchants, a residential developer, and the City to arrive at a preferred design.

Client: City of Alameda
Contact: Barbara Hawkins
Tel: (510) 749-5863
Duration: 2010 - 2011
Status: Complete

ORGANIZATIONAL CHART

The organization chart displays the BKF Team organization and coordination between team members. Our assigned team has worked on multiple intersection improvement projects involving traffic signal modifications and improved pedestrian facilities. BKF has consistently demonstrated a clear understanding of project processing, including initial and final intersection design, including warrant studies, grading, ADA compliance, stage construction and traffic handling, right of way engineering and project approval and constructability. We are organized for a quick response to address your needs and pride ourselves on meeting demanding schedules by providing early identification and resolution of project design and process issues which will be required in order to ensure that the right of way acquisition can be mutually negotiated for the Laurel Road and Rose Avenue Intersection Improvement and Signalization Project. BKF’s in-house experience and capabilities in traffic engineering, multimodal facilities, surveying, right of way engineering, utility design, and oversight and construction administration complement our strong roadway engineering expertise.

BKF commits to the City that the key personnel assigned to this Project will be available for the proposed duration of the Project, and no key personnel will be removed or replaced without the City’s approval. The following staff assignments illustrate the Project roles, responsibilities, and commitment for the Project.





NATALINA BERNARDI, PE, LEED AP
PRINCIPAL IN CHARGE

PROFESSIONAL QUALIFICATIONS & EXPERIENCE

Natalina has over 30 years of technical and management experience in the transportation field. She has been extensively involved in the engineering design and enhancement of all components of roadway design. She has effectively managed design teams and worked closely with public agencies, community organizations, utility companies, institutions, universities, and private owners to incorporate specific concerns and regulations into design. She will review all work products for conformance with the design criteria, and will actively participate in the scheduling of the work and insure the availability of the project team to complete the Project on schedule and within budget. Natalina's value is emphasized by the fact that several agencies have specifically selected her to facilitate and accelerate project deliveries.

RESPONSIBILITIES

- General Project Oversight
- General Project Management
- Ensure Resource Allocation
- Contract Administration
- Assistance with Meeting Goals and Requirements
- Right of Way Engineering Oversight



MARCELO COSENTINO, PE
PROJECT MANAGER

PROFESSIONAL QUALIFICATIONS & EXPERIENCE

Mr. Cosentino will serve as the Project Manager. He will be responsible for the Project, design development, and overall preparation of the documents in concert with the City's objectives and in compliance with the stakeholder requirements. He will oversee the Project Team and provide seamless design coordination. He will ensure that the critical phase of design development is conducted with regard to compliance with the Project and grant requirements, the most current, innovative and tested information available and the feedback obtained from coordination and community meetings. Mr. Cosentino will be involved in stakeholder meetings and provide necessary input and details, as necessary, to address inquiries, as well as coordinate the design efforts within the BKF Team and will be responsible for the Project schedule and budget.

RESPONSIBILITIES

- Specific Project Management & Oversight
- Project Team Coordination,
- Ensure Compliance with Requirements and Project Goals
- Responsible for Preparation of Contract Documents & Schedule
- Preparation of Work Plan
- Maintain Project Budget and Schedule



CARMELO CECILIO, PE
QUALITY ASSURANCE/QUALITY CONTROL ENGINEER

PROFESSIONAL QUALIFICATIONS & EXPERIENCE

Carmelo is an accomplished roadway designer which provides him with an innate understanding as to the requirements and quality required for project documents. His role in quality assurance takes priority at BKF and is not just the final checking of our deliverables. He pursues a zero change order policy, which begins with the integration of specific project planning and review steps conducted throughout the design process. Carmelo will use this approach to uncover and identify potential conflicts and issues with the contract documents and design approach. In his capacity as the Quality Assurance/Quality Control for the BART Seismic Retrofit project, he used this same approach. His work for the BART project included the development of the Quality Control Procedures and Manual, and overseeing reviews and conducting audits of the subconsultant team consisting of 10 team members.

RESPONSIBILITIES

- Project Quality Assurance/Quality Control (QA/QC) Program
- Preparation of Quality Control Procedures
- Quality Control Training
- Project Submittal Reviews
- Subconsultant Product Reviews





JAGGI BHANDAL, PE
PROJECT ENGINEER

PROFESSIONAL QUALIFICATIONS & EXPERIENCE

Assisting Ms. Bernardi will be Mr. Bhandal who will serve as the Project Engineer and will provide the civil engineering design with the support of BKF staff. He will be involved in all aspects of the design to include alternative analysis, grading, drainage and geometric layout. For PS&E, he will be providing the detailed roadway design elements for plan incorporation and develop the complementary specifications and cost estimates. Mr. Bhandal's design experience is diverse and includes geometric alternative development, grading, drainage, storm water quality, utility design, stage construction and pedestrian & bicycle compliant facilities. He has processed several roadway projects incorporating safe multimodal facilities. Complementing his design skills are his communication skills which assists with the coordination with project team members.

RESPONSIBILITIES

- Roadway Design
- Geometric Design
- Grading Design
- Identification of Right of Way Needs
- Preparation of Design Layout and Plans, Specifications and Estimate for Roadway Improvements



RODOLFO ONCHI, PE
TRAFFIC ENGINEER

PROFESSIONAL QUALIFICATIONS & EXPERIENCE

Rodolfo has designed and constructed hundreds of new and modified traffic signals, and is a master at integrating innovative traffic handling solutions for construction in order to preserve ingress, egress, and through movements for businesses, residences, streets, bicycle traffic, and pedestrian traffic. His experience includes the analysis of intersections and design of traffic signals through thousands of miles of roadway in the SF Bay Area for both public and private sector clients. He has the reputation of providing innovative solutions and optimizing the design by meeting the Project operational requirements and minimizing costs.

RESPONSIBILITIES

- Traffic Signal Design (New and Mods)
- Striping & Plan
- Traffic Handling and Stage Construction
- Pedestrian, Bicycle, & Vehicular Detour
- Utility Service Request and Coordination through PG&E, AT&T, and Verizon
- Warrant Study



ED BOSCACCI, PE, QSP/D LEED AP
HYDRAULICS/STORM WATER QUALITY ENGINEER

PROFESSIONAL QUALIFICATIONS & EXPERIENCE

Mr. Boscacci will serve as the Hydraulics/Storm Water Quality Engineer and will be responsible for the hydraulic and storm water quality analysis and design which includes assessing existing conditions and developing proposed requirements. He will provide advisement on the hydraulics and storm water quality analysis required for the project in compliance with RWQCB standards. Mr. Boscacci is highly regarded by Caltrans & municipalities as an expert in his field as evident by his work with the Counties of Alameda and San Mateo in the development of their Best Management Practices and Point Discharge Program. This unmatched experience will provide the Project with the assurance that hydraulic and storm water quality requirements will not hinder design progress & approval.

RESPONSIBILITIES

- Hydraulic and storm water quality analysis
- Design which includes assessing existing conditions and developing proposed requirements





ANDREW MICHEL, PE
UTILITY COORDINATOR

PROFESSIONAL QUALIFICATIONS & EXPERIENCE

Andrew will serve as the Utility Coordinator for the Project. He will coordinate with the utility owners directly to ascertain required information concerning existing facilities, future improvements, and existing utility rights (i.e. franchise agreements or easements). He will

oversee and be responsible for utility identification, relocation requirements, design, schedule, and utility process.

His experience includes being the utility coordinator for the SVBX project in Santa Clara County which entails \$42 million of utility relocations. This project alone has reinforced Mr. Michel's relationships with every utility owner in Santa Clara Valley. His 18 years of experience has included the construction management as well as street and utility design work.

RESPONSIBILITIES

- Utility Identification
- Potholing Coordination
- Coordination with Utility Owners
- Utility Design



DAVIS THRESH, PLS
SURVEY / RIGHT OF WAY MANAGER

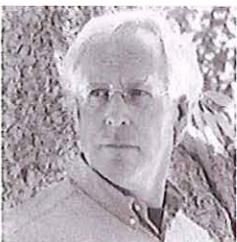
PROFESSIONAL QUALIFICATIONS & EXPERIENCE

Davis will serve as Survey/Right of Way Manager. He will oversee and manage the necessary topographic surveys required for the Project base sheet development. This will include performing the ROW engineering required for those parcels that may require acquisition.

Mr. Thresh has directly overseen the topographic surveys, construction staking survey, right of way engineering and mapping and preparation of plats and legal documents for many of the firm's transportation projects.

RESPONSIBILITIES

- Survey and Project Control
- Topographic Survey (3D Laser Scan)
- ROW Boundary Resolution
- ROW Engineering
- Plat and Legals Preparation



DAVID GATES
PRINCIPAL LANDSCAPE ARCHITECT

PROFESSIONAL QUALIFICATIONS & EXPERIENCE

DAVID GATES will serve as the Principal Landscape Architect. David has nearly 4 decades of professional experience working with private developers as well as public agencies. His expertise ranges from small neighborhood parks to large open space master plans. As a Lead Designer on countless projects, David's portfolio consists of streetscape projects that not only present enhancements, but designs that are celebrated reflections of the community. While

David is highly respected and widely recognized among the architectural community for his designs, his expertise extends beyond just design and includes a comprehensive understanding of what is needed to successfully implement designs by adhering to the requirements of numerous agencies and jurisdictions. David has substantial experience implementing plans that enhance the vehicular, pedestrian and bicycle experience. Some relevant projects that David has worked on include the Marina Bay Parkway Grade Separation in Richmond, Richmond Transit Village and the Bollinger Canyon Road Widening in San Ramon. Further, David also worked on the Burlingame and Broadway Avenue Streetscape Beautification over a decade ago.



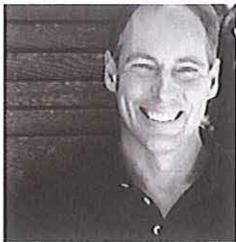


KIMMY CHEN
LANDSCAPE ARCHITECT PROJECT MANAGER



PROFESSIONAL QUALIFICATIONS & EXPERIENCE

Kimmy Chen will serve as the Landscape Architect Project Manager. Kimmy has managed a wide array of public and private sector projects with a large majority being transportation oriented. Her extensive experience with streetscape design for various agencies including projects involving multiple jurisdictions provide Kimmy with an in depth understanding of their unique issues and how to approach them. Kimmy's expertise extends beyond design as she oversees projects from design concept to construction documents and administration. Kimmy has successfully designed and implemented various transit oriented projects involving streets in need of vehicular, pedestrian, and bicycle revitalizations. A handful of these projects that Kimmy's expertise were vital to include San Pablo Avenue in El Cerrito, Saratoga Downtown Pedestrian Enhancements, and Richmond Transit Village.



JEFF BRADSHAW
CERTIFIED IRRIGATION DESIGNER



PROFESSIONAL QUALIFICATIONS & EXPERIENCE

Jeff Bradshaw will serve as the Certified Irrigation Designer. Jeff has over two decades of experience in irrigation design from parks and fields to major highway projects. Jeff is extremely well versed in multiple aspects of irrigation including design, plan review, design review, irrigation and water management, master planning, hydraulic calculation, project specifications, field observation, irrigation scheduling, water usage calculation and irrigation water auditing. Jeff previously served as Vice President and Secretary for the American Society of Irrigation Consultants and is currently a Professional Member. He is also an Associate Member of the Irrigation Association and a certified Commercial Irrigation Designer with the Irrigation Association.



KEN NGAI
LEAD ELECTRICAL ENGINEER



PROFESSIONAL QUALIFICATIONS & EXPERIENCE

Mr. Ngai will serve as Lead Electrical Engineer. His responsibilities will include lighting and electrical design. He has over thirty years of experience in management, engineering, design and construction supervision of electrical systems for streetscape, transportation, infrastructure, electric utilities, sports facilities, parks, educational, institutional, high technology, R&D, industrial, clean rooms and laboratories, and commercial projects.



GARY PARIKH, PE, GE
GEOTECHNICAL ENGINEER



PROFESSIONAL QUALIFICATIONS & EXPERIENCE

Mr. Parikh will serve as the Geotechnical Manager. He will be responsible for technical consultations, engineering supervision, maintaining technical standards, and communications. Under Gary's supervision, Parikh Consultants staff will be responsible for geotechnical and pavement recommendations for the Project. Gary Parikh has over 43 years of experience in managing, supervising, and conducting geotechnical investigations and materials engineering services for a wide spectrum of projects. Mr. Parikh is responsible for technical consultations, engineering supervision, and maintaining technical standards, as well as client and project communication activities.



NATALINA BERNARDI, PE, LEED AP

PRINCIPAL-IN-CHARGE

Ms. Bernardi has over 30 years of technical and management experience in the transportation field. As a Principal-in-Charge, Ms. Bernardi has been extensively involved in the engineering design and enhancement of highways, rail, roadways, and bicycle/pedestrian improvements, and pedestrian facilities. Her work has included roadway reconstruction, bicycle and pedestrian access, signalized intersection and improvement plans. Ms. Bernardi has worked closely with public agencies, community organizations, utility companies, and institutions to incorporate specific concerns and regulations into design while monitoring the project budget and goals.

RELEVANT EXPERIENCE

EDUCATION

BS, Civil Engineering,
University of California,
Berkeley, 1985

REGISTRATION

Professional Civil
Engineer,
CA No. 45407, 1990

AFFILIATIONS

LEED Accredited
Professional, USGBC

Women's Transportation
Seminar, WTS

YEARS WITH BKF

27 Years

TOTAL YEARS EXPERIENCE

30 Years

Sunnyvale Ave/Old San Francisco Road Intersection Project, Sunnyvale, CA

- Principal-in-Charge
- New Signalized Intersection at Sunnyvale Avenue/Old San Francisco Road
- Conducted a Review of Traffic Signal Modification, Median Reconstruction and Street Planting & Irrigation Design
- Reviewed Pedestrian Accessibility Improvements
- Oversaw Design to Preserve and Restore Private Property
- Provided Design Oversight for Vehicle, Pedestrian and Bicycle Safety
- Worked with Property Owners to Avoid Right of Way Acquisition and Minimize Construction Impacts
- Processed Caltrans Funding (E-76) Assistance
- Supervised Plans, Specifications, and Estimate
- Provided Construction Assistance

Duane and Britton Avenues Improvement Project, Sunnyvale, CA

- Principal-in-Charge
- New Signalized Traffic Signal
- Roadway Improvements for ADA Compliance
- Worked with Community and Adjacent School
- Reviewed Construction Staging and Permitted Hours
- Coordinated with Other Projects Conducting Work During Same Period
- Provided Construction Assistance

Hwy 9/University Ave Intersection Improvements, Los Gatos, CA

- Principal-in-Charge
- Intersection Widening
- Implemented Pedestrian and Bicycle Improvements
- Reviewed Grading & Drainage Design
- Supervised Traffic Signal Modification
- Assisted with Right of Way Acquisitions for Traffic Signal Equipment Installation
- Led Caltrans Encroachment Permit and Approval

Los Altos Downtown Street Improvement Project, Los Altos, CA

- Principal-in-Charge
- Historic Downtown Revitalization
- Curb, Gutter, and Planter Bulb-Out Improvements
- Reviewed Rule 20A Utility Undergrounding
- Aesthetic Details to Sidewalks
- Supervised Decorative Street Lighting & Traffic Signal Design
- Public Outreach with Project Stakeholders



Sunnyvale Ave/Old San Francisco Road

NATALINA BERNARDI, PE, LEED AP

PRINCIPAL-IN-CHARGE

Midtown North Main Street Improvement Project, Milpitas, CA

- Principal-in-Charge
- Street Beautification and Reconstruction
- Pedestrian Oriented Facility/Traffic Calming
- Three New Signalized Intersections
- Elaborate Landscaping and Streetscape
- Utility Reconstruction and Undergrounding
- Preservation of Historic Building
- MTC and Caltrans Approval for Federal Regulation Compliance

Santa Cruz Avenue and East Main Downtown Street Improvements, Los Gatos, CA

- Principal-in-Charge
- Revitalization of Downtown Los Gatos
- Pavement Reconstruction and Re-profiling
- Bicycle and Pedestrian Safety Improvements
- Sidewalk Enhancements and Bulb-out Design
- Modifications for ADA Compliance
- Signalized Intersection Modifications
- Utility Adjustments, Modifications, and Coordination
- Accelerated Design and Construction Schedule
- Detailed Vehicular and Pedestrian Construction Staging and Traffic Handling Plans

Highway 9 Safety Improvements, Los Gatos, Monte Sereno, and Saratoga, CA

- Principal-in-Charge
- Pedestrian and Bicycle Safety Improvements
- ADA Compliant Pedestrian Facilities
- Class II and III Bicycle Improvements
- AASHTO Design Policy for Bicycles
- Traffic Signal Modifications
- Facilitated Caltrans Encroachment Permit & E-76 Processing
- Tri-City Design, Coordination and Oversight
- Combined Bicycle and Pedestrian Masterplan
- Participated in Public Presentations
- Won Stakeholder Consensus

Dublin Boulevard/Dougherty Road Intersection Improvements, Dublin, CA

- Principal-in-Charge
- Intersection Capacity Enhancement/Roadway Widening
- Reviewed Alternative Geometric Analysis/Traffic Signal Modification
- Facilitated Utility Undergrounding/Rule 20A Coordination
- Coordinated Right of way Acquisition and Engineering/Landscape Enhancement
- Environmental Document Assistance/Multimodal Facilities

Westgate Parkway Extension Project, San Leandro, CA

- Principal-in-Charge
- Local Street Widening and Reconstruction
- Analyzed Phased Construction Design
- Reviewed Utility Undergrounding and Drainage
- Analysis and Design
- Intersection Signal Design
- Evaluated Pedestrian/Bicycle Circulation
- Oversaw Specifications in Greenbook Format
- Assisted in Noise Study Report
- Confirmed Staging for Continuous Access for Adjacent Businesses
- Coordinated with City, Utility Owners, and Stakeholders
- Supervised Plans, Specifications, and Estimate
- Provided Construction Support

Highway 1/9 Intersection Improvements, Santa Cruz, CA

- Principal-in-Charge
- Capacity Enhancing and Safety Improvement Project
- Roadway Reconstruction/ Federally Funded Project
- Reviewed Geometric Alternative Analysis/Pedestrian& Bicycle Improvements
- Confirmed Multi-phased Stage Construction
- Oversaw Traffic Analysis and Signal Modifications
- Processed Caltrans Project Report & Environmental Clearance
- Supervised Caltrans PS&E



Dublin Boulevard/Dougherty Road Intersection Improvements



MARCELO CONSENTINO, PE

PROJECT MANAGER

Mr. Cosentino will serve as the Project Manager and has over 18 years of experience. His responsibilities encompass streetscape, roadway, highway, heavy/light rail, and bicycle/pedestrian design. His experience entails civil, traffic, safety and ADA related aspects of roadway and bicycle/pedestrian projects. He has worked on community-oriented projects ranging from street beautification projects to bicycle/pedestrian safety improvement projects throughout urbanized areas. He has worked on numerous federally funded projects and works closely with the Caltrans Local Assistance Office in processing and securing authorizations of federally funded projects. In all his projects—large or small, Mr. Cosentino strives to deliver value to the project by understanding the client's objectives, exploring innovative design alternatives, and respecting all aspects of the environment.

EDUCATION

MBA, Marketing/Finance,
San Jose State University

BS, Civil Engineering,
Santa Clara University

REGISTRATION

Professional Civil
Engineer,
CA No. 69063

YEARS WITH BKF

9 Years

TOTAL YEARS EXPERIENCE

18 Years

RELEVANT EXPERIENCE

Main Street Downtown Visioning, Oakley, CA

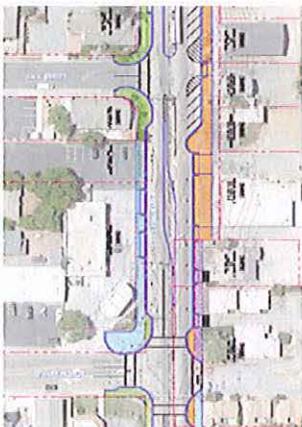
- Project Manager
- Assisted Development of Master Planning for Street Conversion and Downtown Revitalization
- Incorporated of Pedestrian & Bicycle Improvements
- Presented Concepts to Community and City Council
- Worked with City to Develop Interim Street Reconstruction Design to Pursue Funding Grant
- Coordinated with Utility Owners for Relocations and Compliance with Federal Funding Guidelines
- Oversaw Design Development of Street Widening
- Verified Right of Way Requirements
- Coordinated with City for E-76 Funding Process

Doane & Drew Avenues Pavement Reconstruction, Mountain View, CA

- Project Manager
- Pavement Reconstruction and Rehabilitation
- ADA Compliant Curb Ramp Construction
- Pavement Rehabilitation Treatment Analysis
- Curb, Gutter and Sidewalk Construction
- Worked with City in meeting Project Objectives
- Oversaw Plans, Specifications, and Estimate

Los Altos Downtown Street Improvement Project, Los Altos, CA

- Project Manager
- Pedestrian Access and ADA Design Upgrades
- Curb, Gutter and Planter Bulb-Out Improvements
- Gateway Development and Installation
- Designed Street Narrowing Section and Re-Profiling
- High Visibility Crosswalks
- Coordinated with Rule 20A Utility Undergrounding
- Reviewed Landscaping, Aesthetic Details, and Street Lighting Features
- Worked with Landscape Architect for Installation of Landscaped Medians, Parkways and Rain Gardens
- Assisted in Development of Extensive Stage Construction to Maintain Business and Pedestrian Access
- Developed Multiple Phased Project over Two Years
- Oversaw the Development of the Plans, Specifications, and Estimate
- Participated and Provided Graphics for Public Outreach and Project Stakeholder Coordination



Main Street Downtown Visioning

MARCELO CONSENTINO, PE

PROJECT MANAGER

Winchester Boulevard Street Improvement Project, Los Gatos, CA

- Project Manager
- Incorporated Pedestrian & Bicycle Facilities Along Roadway, VTA Light Rail & Within Caltrans Overcrossing
- Two Modified Rail Grade Crossings
- Skewed Roadway Crossing
- Separated Pedestrian/Bicycle Path for Perpendicular Crossing at Railway
- Prepared GO-88B Grade Modification Application Through CPUC
- Set and Coordinated Diagnostic Field Meeting
- Negotiated with UPRR, VTA, and CPUC to Establish Acceptable Alternative for Pedestrian/Bicycle Crossings
- Obtained Caltrans Encroachment Permit through PEER Process for Roadway Work and Bridge Widening
- Prepared VTA Construction Access Permit for Installation Across LRT
- Facilitated Right of Way Agreements with VTA and UPRR

Sunnyvale Ave/Old San Francisco Road Intersection, Sunnyvale, CA

- Project Manager
- New Signalized Intersection at Sunnyvale Ave/Old San Francisco Rd
- Traffic Signal Modification at Sunnyvale Ave/El Camino Real
- Coordinated Environmental Documentation and Approval
- Oversaw Design for Multi-modal Facilities and Street/Median Modification Plans
- Implemented Pedestrian Accessibility Enhancements
- Provided for Vehicle, Pedestrian & Bicycle Safety improvements
- Incorporated Detailed Design to Preserve & Restore Elements on Private Property
- Processed and Obtained Approval from Caltrans for E-76 Authorization
- Managed Preparation of Plans, Specifications and Estimate

First Street Downtown Street Improvement Project, Los Altos, CA

- Project Manager
- Historic Downtown Revitalization
- Curb, Gutter, and Planter Bulb-Out Improvements
- Designed Street Narrowing Section and Re-profiling
- Coordinated with Rule 20A Utility Undergrounding
- Reviewed Landscaping, Aesthetic Details, and Street Lighting Features
- Assisted in Development of Extensive Stage Construction to Maintain Business and Pedestrian Access
- Assisted in Public Outreach to Project Stakeholders
- Prepared Plans, Specifications, and Estimate

Page Mill Road Widening, Palo Alto, CA

- Project Manager
- 2.8 Miles of Corridor/Roadway Widening
- Geometric Alignment and Design/Evaluated Impact to Adjacent Parking Lots
- Relocation of Bike and Pedestrian Facilities
- Established Right of Way Need/Right of Way Impact
- Conformance to City Standards & MUTCD Requirements
- Established Location/Extents of Walls for Widening
- Developed Cost Estimate to Establish Budget Conformance
- Prepared Plans, Specifications, and Estimate

Almaden Expressway Improvements, San Jose, CA

- Project Manager
- Design and Construction Support Services
- Pedestrian Safety Improvement Project
- Designed Striping Realignment for Bicycle Lanes
- Provided Street Widening and Reconstruction to Improve ADA Pedestrian Access
- Oversaw Geometric Alternative Analysis
- Processed E-76 Approval through Caltrans Local Assistance
- Prepared Plans, Specifications, and Estimate



Sunnyvale Ave/Old San Francisco Road



CARMELO CECILIO, PE

QUALITY ASSURANCE/QUALITY CONTROL MANAGER

Mr. Cecilio has over 26 years of civil engineering experience. He has experience specializing in all aspects of various municipal improvement projects including roadway, utility improvement, highway and light rail geometric design and calculations, retaining wall design, drainage analysis, signing and striping, stage construction and traffic detours. He will serve as the Quality Assurance / Quality Control Coordinator reviewing plans for concept and constructability during the beginning phases of the design and will review the products conformance to City standards and guidelines through the duration of the project.

RELEVANT EXPERIENCE

EDUCATION

BS, Civil Engineering,
1988
Santa Clara University, CA

REGISTRATION

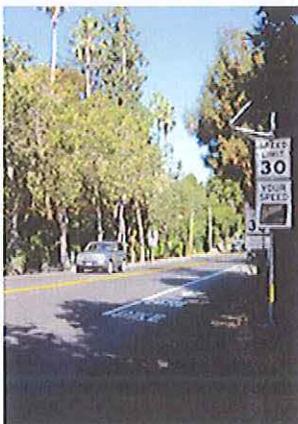
Professional Civil
Engineer,
CA No. 53143

YEARS WITH BKF

16 Years

TOTAL YEARS EXPERIENCE

26 Years



Highway 9 Safety Improvements

BART Seismic Retrofit Project, Oakland/Berkeley/Albany/El Cerrito/ Richmond, CA

- Quality Assurance/Quality Control Engineer
- Oversaw Quality Control Program for R Line Retrofit
- Conducted Subconsultant Audits to Confirm Compliance
- Seismic Retrofit of R Line Segment (10.6 Miles)
- 3 Vehicular/Pedestrian Undercrossing Locations
- Roadway & Drainage Improvements
- Extensive Utility Relocation and Design
- Traffic Handling/Stage Construction
- Pedestrian/Bicycle Pathway Design
- 6 Signalized Intersections/Lighting Design

Highway 9 Safety Improvements, Los Gatos, Monte Sereno, and Saratoga, CA

- Project Engineer
- Roadway Widening and Reconstruction
- Designed ADA Compliant Pedestrian and Class II and III Bicycle Facilities
- Assisted in ROW Requirement Determination
- Conducted Utility Master Planning and Design
- Determined Multi-Phased Stage Construction Design for Funding Constraints
- Reviewed Street Lighting/Pedestrian Warning Systems
- Assisted in Public Outreach Presentations/Community Meetings
- Provided Design Oversight of Plans, Specifications, and Estimate

Westgate Parkway Extension Project, San Leandro, CA

- Quality Assurance/Quality Control Engineer
- Local Street Widening and New Construction
- Phased Construction Design
- Utility Master Planning/ Drainage Analysis & Design
- Checked Compliance of Pedestrian/Bicycle Circulation
- Reviewed In-Pavement Lighting at Crosswalk
- Reviewed Staging for Continuous Access to Shopping and Residential Site

Los Altos Downtown Street Improvement Project, Los Altos, CA

- Quality Assurance/Quality Control Engineer
- Reviewed PS&E for Historic Downtown Revitalization
- Reviewed Utility Re-arrangement Plans Provided by Utility Owners
- Back-checked Subconsultant Work for Conformity and Consistency
- Curb, Gutter, and Planter Bulb-out Improvements
- Street Narrowing and Re-profiling/Rule 20A Utility Undergrounding
- Extensive Stage Construction to Maintain Business and Pedestrian Access
- Landscaping & Aesthetic Details/Decorative Street Lighting & Traffic Signal

CARMELO CECILIO, PE

QUALITY ASSURANCE/QUALITY CONTROL MANAGER

Santa Cruz Avenue/East Main Street Downtown Street Improvements, Los Gatos, CA

- Quality Assurance/Quality Control Engineer
- Pavement Reconstruction and Re-profiling
- Bicycle and Pedestrian Safety Improvements
- Sidewalk Enhancements and Bulb-out Design
- Assured Modifications Maintained ADA Compliance
- Reviewed Signalized Intersection Modifications
- Reviewed Utility Adjustments and Modifications
- Accelerated Design and Construction Schedule
- Detailed Vehicular and Pedestrian Construction Staging and Traffic Handling Plans

Dublin Boulevard/Dougherty Road Intersection Improvements, Dublin, CA

- Quality Assurance/Quality Control Engineer
- Intersection Capacity Enhancement/ Roadway Widening
- Reviewed Alternative Geometric Analysis
- Reviewed Traffic Signal Modification
- Utility Undergrounding/Rule 20A Coordination
- ROW Acquisition and Engineering/Landscape Enhancement
- Environmental Document Assistance/Multimodal Facilities
- Coordinated Needs & Input of Multi-Jurisdictions

Blossom Hill Station Pedestrian Overcrossing, San Jose, CA

- Quality Assurance/Quality Control Engineer
- Design and Construction Management for POC Spanning UPRR/Caltrain and Blossom Hill Station
- Worked with Contractor to Ensure Compliance with Contract Documents
- Developed Construction Documents with Specifications Compliant with UPRR/Caltrain Standards
- Coordinated with PG&E, AT&T and Comcast in Development of Utility Protection and Relocations

Midtown North Main Street Improvement Project, Milpitas, CA

- Quality Assurance/Quality Control Engineer
- Street Beautification and Reconstruction
- Assured Preservation of Historic Building
- Reviewed Landscaping and Streetscape Design with Conformance to Civil Plans
- Verified Pedestrian Facilities & Traffic Calming Features
- Reviewed Grading, Drainage, Utility Reconstruction, and Traffic Control Design
- Verified Accuracy of Quantities with Plans & Specifications
- Supervised Plans, Specifications, and Estimate

North Connector Project, Solano County, CA

- Quality Assurance/Quality Control Engineer
- 2 Miles of New Road
- Reviewed Geometric Analysis/Utility Relocation
- Reviewed Drainage & Grading Design
- Mapping and ROW Acquisitions/ Community Outreach
- Environmental Document Assistance & Implementation
- Coordination with Multiple Jurisdictions

Facebook EIR Mitigation Improvements, Palo Alto and Menlo Park, CA

- Quality Assurance/Quality Control Engineer
- Expressway Widening and Reconstruction
- Intersection Modifications/Multimodal Facilities
- Bicycle Lanes and Paths/Pedestrian Paths and Trails
- Modified Curb Ramps for ADA Compliance
- Grading, Storm Drain Design, & Water Quality Implementation
- Utility Design and Relocation
- Coordination with Cities, Railroad, and Utility Companies
- Plans, Specifications, and Estimate



Santa Cruz Avenue/East Main Street Downtown Street Improvements



JAGGI BHANDAL, PE, LEED AP

PROJECT ENGINEER

As a Project Engineer, Mr. Bhandal's responsibilities encompass roadway design engineering including heavy rail, grade separation, and streetscape design projects. His experience entails all general aspects of roadway projects including geometrics, drainage, utilities, grading, construction staging, and traffic handling. Mr. Bhandal has performed project design for various municipal, roadway and highway projects and is well versed in multi-modal design which infuses bicycle, pedestrian, mass transit, and vehicular traffic.

RELEVANT EXPERIENCE

EDUCATION

BS, Civil Engineering,
University of California,
Davis, 2007

REGISTRATION

Professional Civil
Engineer, CA No. 77430,
2011

AFFILIATIONS

LEED Accredited
Professional – USGBC

YEARS WITH BKF

9 years

TOTAL YEARS EXPERIENCE

9 years



Los Altos Downtown Street Improvements

North Connector Project, Solano County, CA

- Project Engineer
- 2 Miles of New Road and Intersection Modification
- Prepared Caltrans Encroachment Permit
- Developed Geometric Alternatives with Multi-Modal Facilities and Upgraded urb Ramp for ADA Compliance
- Prepared Drainage, Grading, and Utility Design
- Determined ROW Acquisitions and Requirements
- Assisted with Preparation of Environmental Document
- Facilitated the Coordination with Multiple Jurisdictions
- Assembled Plans, Specifications, and Estimate

Sunnyvale Avenue/Old San Francisco Road Project, Sunnyvale, CA

- Project Engineer
- New Signalized Intersection at Sunnyvale Avenue/Old San Francisco Road
- Developed Geometrics with Multi-Modal Facilities
- Prepared Median Reconstruction Details and Reviewed Street Planting & Irrigation
- Designed Pedestrian Accessibility Improvements
- Restored Design Elements on Private Property
- Processed Caltrans Funding (E-76)
- Prepared & Assembled Plans, Specifications, & Estimate
- Coordination with Multiple Jurisdictions

Highway 9 Safety Improvements, Los Gatos, Monte Sereno, and Saratoga, CA

- Project Engineer
- Pedestrian and Bicycle Safety Improvements
- Class II and III Bicycle Improvements
- ADA Compliant Pedestrian Facilities
- Combined Bicycle and Pedestrian Masterplan
- Drainage & Grading Improvements
- Utility Adjustment & Coordination
- In Pavement Lighting Design
- Tri-City Design, Coordination and Oversight
- Design Exceptions Processed for Caltrans Approval
- Caltrans Encroachment Permit

Highway 1/9 Intersection Improvements, Santa Cruz, CA

- Project Engineer
- Capacity Enhancing and Safety Improvement Project
- Prepared Geometric Alt Analysis/Drainage Design
- Designed Pedestrian/Bicycle Improvements
- Developed Multi-phased Stage Construction
- Prepared Grading, Drainage, and Utility Plans
- Reviewed Traffic Analysis and Signal Modifications



RODOLFO ONCHI, PE

TRANSPORTATION ENGINEER

As a Transportation Engineer, Mr. Onchi has over 14 years of experience in project design and development of major roadway and highway design projects. He is an expert at geometric design, traffic signal design, ramp metering, signing plans, construction detour design, pavement delineation, and staged construction plan preparation. Mr. Onchi's experience includes both public and private sector clients. He has the reputation of optimizing the design by meeting the project operational requirements and minimizing costs.

RELEVANT EXPERIENCE

EDUCATION

BS, Civil Engineering, San Jose State University

REGISTRATION

Professional Civil Engineer,
CA No. 72157

YEARS WITH BKF

13 Years

TOTAL YEARS

EXPERIENCE

14 Years

Highway 9/University Avenue Intersection Improvements, Los Gatos, CA

- Traffic Engineer
- Intersection Widening
- Pedestrian and Bicycle Improvements
- Traffic Signal Modification
- Staging and Traffic Handling Plan and Specification Development
- Caltrans Encroachment Permit Approval

3rd/4th Street Couplet Conversion, San Jose, CA

- Traffic Engineer
- Street Conversion for Two-Way Traffic
- Traffic Calming Features and ADA Compliance Upgrades
- Enhanced Walkways and Pedestrian Facilities
- Signing and Striping Plans
- Traffic Signal Modifications

Sunnyvale Avenue/Old San Francisco Road Improvements, Sunnyvale, CA

- Traffic Engineer
- Intersection Modifications
- Traffic Signal Modification at El Camino/Sunnyvale Avenue
- New Traffic Signal Installation
- Pedestrian/Bicycle Circulation
- Signing and Striping Plans and Specifications
- Warrant Study Analysis for Signal Justification

Dublin Boulevard/Dougherty Road Intersection Improvements, Dublin, CA

- Traffic Engineer
- Widening of Local Streets, Traffic Signal Modification
- Vehicle Turning Analysis and Lane Configuration Modifications
- Right of Way Acquisition Identification
- Pavement Delineation Design
- Traffic Signal Modification Design

Midtown North Main Street Improvement Project, Milpitas, CA

- Traffic Engineer
- Geometric Alternatives
- Bulb-outs Constructed at Intersections
- Pedestrian Safety/ADA Compliance
- Signing and Striping Plans
- Staged Construction/Phasing Design
- Three New Signalized Intersections



Highway 9/University Avenue Intersection



ANDREW MICHEL, PE

UTILITY COORDINATOR

As a Utility Coordinator, Mr. Michel's responsibilities encompass utility design and coordination. His experience entails private on-site, as well as off-site aspects of civil and utility design and construction, including grading, utility coordination, utility relocation, construction survey staking coordination and construction administration. With over 18 years of experience, Mr. Michel has performed project design through the preliminary stages of project planning to the final phases of construction for various municipal, roadway and private site development projects.

RELEVANT EXPERIENCE

EDUCATION

BS, Civil Engineering,
San Jose State University,
1997

REGISTRATION

Professional Civil
Engineer,
CA No. 69078, 2012

YEARS WITH BKF

18 Years

TOTAL YEARS EXPERIENCE

18 Years

Sand Hill Road Corridor Projects, Palo Alto, CA

- Utility Coordinator & Construction Manager of the Sand Hill Road Corridor Projects
- Provided Civil Engineering Design associated with Roadway Improvements, Utility Investigations and Relocation Design
- 1,000 l.f. of 8" High Pressure Gas Line Relocation
- Undergrounding of 1,000 l.f. of 60 Kv Electrical Lines
- Alignment and Concrete Capping over 12-Duct Vitrified Clay Duct bank for Telecommunication and Fiber Optic Lines
- Headed 3rd Party Utility Relocation Coordination with PG&E, California Water Co. & West Bay Sanitary District
- Offered Utility Recommendations, including Standard Clearances and Maintenance Requirements
- Completed Utility Design and Cost-Impact Comparisons for Value-Engineering Analyses and During Construction
- Coordinated Survey Staking Requests and Mapping

Silicon Valley Rapid Transit (SVRT) BART Extension to San Jose, Alameda & Santa Clara Counties, CA

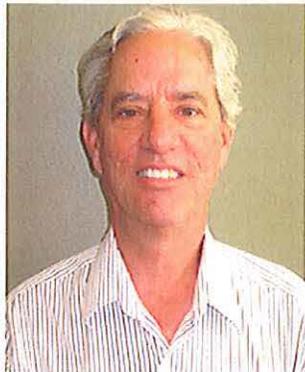
- 9 Roadway Crossings w/ 2 Roadway Depressions
- 7 BART Stations
- 17 Traffic Signal Design/Railroad Crossing Design
- Multiple Roadway Reconstruction & Realignment
- Identified Utility Conflicts and Developed Preliminary Relocation Plans
- Developed Project Potholing Contract, Plans & Specs
- Coordinated Third Party Utility Owner Final Designs Documents for over 40 Relocations
- Utility Design Coordinator for VTA for Design-Build Contract Oversight & Coordination
- Coordinated with over 10 Third Party Utility Owners for \$42 Million in Utilities

Vasona C326, C345 and C356 – Light Rail Construction/Diridon Station to Winchester Station, San Jose and Campbell, CA

- Coordinated Utility Identification, Relocation, & Design for PCJPB Diridon Track Yard
- Provided Civil, Utility & Drainage Design Services for Reconstruction Work Following Installation of the 1,100' Long LRT Tunnel & Pedestrian Tunnel Segment
- Led Coalition of Consultants, Jurisdictions, & 3rd Party/ Utility Owner Stake Holders During Design Development to Insure Integrity of Existing Utility Facilities & Systems Were Identified, Preserved, Relocated, & Re-Established Following Construction Process
- Utility Design Services for 13 At-Grade Crossings



Sand Hill Road Corridor Projects



ED BOSCACCI, PE, QSP/D, LEED AP

HYDRAULICS/STORM WATER QUALITY ENGINEER

Mr. Boscacci is responsible for the hydrology/hydraulic calculations, studies and reports for the firm. He has been a team member on several complicated public works projects throughout the San Francisco Bay Area. Mr. Boscacci has prepared many drainage, flood plain analysis, storm water quality, and hydro modification reports. His proficiency and innovative solutions in urbanized areas has resulted in cost efficient designs. He has designed the drainage master planning and implementation for projects throughout Northern California. His experience also includes design of storm, water and sanitary sewer systems to include pump/lift stations.

RELEVANT EXPERIENCE

EDUCATION

MS, Civil Engineering (Sanitary), University of California, Berkeley, 1980

BS, Civil Engineering, University of California, Berkeley, 1979

REGISTRATION

Professional Civil Engineer,
CA No. 34369, 1982

AFFILIATIONS

LEED Accredited Professional, USGBC

YEARS WITH BKF

18 Years

TOTAL YEARS

EXPERIENCE
18 Years



Dublin/Dougherty Intersection

Dublin Boulevard/Dougherty Road Intersection Improvements, Dublin, CA

- Hydraulics/Storm Water Quality Engineer
- Intersection Capacity Enhancement/Roadway Widening
- Storm Water Treatment Measures
- Culvert Lengthened to Allow Roadway Widening
- Coordination with Storm Drain Master Plan
- Environmental Document Assistance
- Caltrans PS&E

Sand Hill Road Corridor Projects, Stanford, CA

- Hydraulics/Storm Water Quality Engineer
- On-Call of Roadway Widening and New Construction
- Assisted With Permitting of San Francisquito Creek Bridge Widening
- Permit Processing Through County of San Mateo, Santa Clara Valley Water District, Corps of Engineers, California Department of Fish and Game and Regional Water Quality Control Board
- Drainage Analysis / Utility Mapping and Relocation

Eastbound Montague Expressway Widening, Milpitas, CA

- Hydraulics/Storm Water Quality Engineer
- Drainage Report and Recommendations
- Extended the Existing Culvert at Berryessa Creek to Accommodate an Additional Lane of Traffic
- Prepared HEC-RAS Analyses for Santa Clara Valley Water District Review Demonstrating the Impact of the Proposed Project
- Santa Clara Valley Water District permitting
- Caltrans Coordination

Alameda County Clean Water Program, Alameda County, CA

- Hydraulics/Storm Water Quality Engineer
- Assisted with Preparation of C.3 Design Guideline Manual
- Prepared Fact Sheets for Stormwater Treatment Measures
- Developed Soil Specifications for Various Treatment Soils
- Prepared Examples of Treatment Solutions

Shady Lane Drainage Analysis, Hillsborough, CA

- Hydraulics/Storm Water Quality Engineer
- Shady Lane Drainage Area have Experienced Flooding in the Past due to Existing Stormdrain System Capacity Deficiencies
- Prepare the Hydrology to Determine Peak Flows for Evaluating the Existing System and to Recommend Corrective Actions
- Conduct a Preliminary Field Survey to Collect Key Information
- Prepare Hydraulic Analysis
- Evaluate Alternatives



DAVIS THRESH, PLS
SURVEY/RIGHT OF WAY MANAGER

Mr. Thresh will serve as the Survey/Right of Way Manager. His survey experience spans over 32 years. Throughout his tenure with BKF, he has played a key role in many projects, for both the public and private sectors. His responsibility involves project management of all survey projects including scheduling, budget tracking, dispatching, supervision of crews, and coordination of the office and field surveyors. Mr. Thresh has directly overseen the topographic surveys, construction staking survey and right of way acquisition and mapping for many of the firm's roadway projects.

RELEVANT EXPERIENCE

EDUCATION
Surveying, Diablo Valley
College, Pleasanton Hill,
CA

REGISTRATION
Professional Land
Surveyor,
CA No. 6868, 1992

YEARS WITH BKF
25 Years

TOTAL YEARS
EXPERIENCE
32 Years

Highway 1/9 Intersection Improvements, Santa Cruz, CA

- Survey/Right of Way Manager
- Intersection and Highway Improvements
- Boundary Resolution
- Access Control Delineation
- Topographic Surveys and Mapping
- Right of Way Verification

North Connector Project, Solano County, CA

- Survey/Right of Way Manager
- 2 Miles of New Road
- Right of Way Mapping and Acquisition
- Plat and Legal Preparation
- Project Control
- GPS Surveying
- Topographic Surveying

Sand Hill Road Corridor Projects, Palo Alto, CA

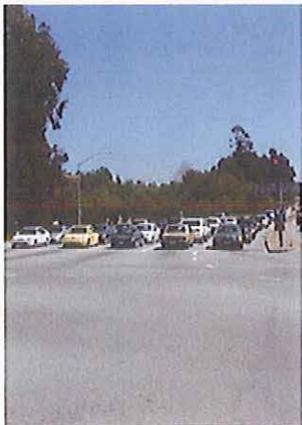
- Survey/Right of Way Manager
- Roadway Widening, Shopping Center Expansion and Multi-Unit Development
- ROW Acquisition & Mapping/Easement Preparation
- GPS Surveying
- Topographic Surveying and Aerial Photo Mapping
- Record of Survey
- Construction Staking

Dublin Boulevard/Dougherty Road Intersection Improvement, Dublin, CA

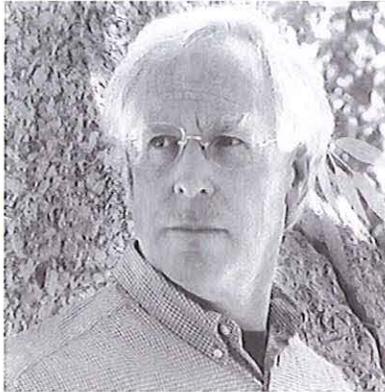
- Survey/Right of Way Manager
- Intersection Improvements & Roadway Widening
- Right of Way Mapping and Acquisition
- Plat and Legal Preparation
- Project Control/ GPS Surveying
- Topographic Surveying
- Record of Survey

Oakland Road Widening, San Jose, CA

- Survey/Right of Way Manager
- Local Street Widening
- GPS Surveying
- Photo Flight Control
- Right of Way Research and Documentation
- GPS Surveying
- Utility Potholing
- Topographic Surveying



Highway 1/9 Intersection Improvements



DAVID GATES

PRINCIPAL LANDSCAPE ARCHITECT

David Gates is a Landscape Architect, Urban Designer and Site Planner. His expertise includes large and small scale projects for both the private and public sectors. He has over 40 years of professional experience designing parks and recreation facilities ranging from neighborhood parks to recreation and open space master plans. His public project portfolio includes streetscape and downtown revitalizations, community and civic centers, fire stations and libraries, as well as master plan and guideline documents.

It is David's unique ability to develop creative solutions that recognize a variety of viewpoints. The spaces he creates are celebrated, educational reflections of the community in context with their environments. His designs successfully integrate the needs of diverse user groups. David has served on a number of city design review boards. This breadth of experience allows him to work with citizen's groups and city agencies in a positive, efficient and sympathetic manner.

David's design expertise has been recognized by Urban Designer of the Year, the Builder's Association, MAME, the Gold Nugget Best of the Best, the San Francisco Chronicle and many others. David's new urbanist approach is exemplified in much of the firm's work.

AREAS OF EXPERTISE

- Group Leadership
- Urban Design
- Pedestrian-Friendly Environs.
- Public Presentations
- Sustainable / LEED Design
- Agency Liaison
- Universal Access
- Interactive Sculptural Fountains

REGISTRATIONS

Landscape Architect #1550, CA 1970
Expiration: May 2017

PROFESSIONAL EXPERIENCE

President, Gates & Associates,
1977- Present
Member, Design Review Board,
Walnut Creek, 1978 -1983
Instructor of Site Planning,
U.C. Extension, 1972 -1984
Assistant Professor,
U.C. Berkeley, 1971-1980
Associate,
EDAW Inc., San Francisco, 1971-
1973
Designer, Boston Redevelopment
Authority, 1970 -1971

EDUCATION

M.A. Urban Design,
Graduate School of Design,
Harvard University, 1970
M.L.A. Landscape Architecture,
Graduate School of Design,
Harvard University, 1968
B.A. Landscape Architecture,
U.C. Berkeley, 1966

PROFESSIONAL AFFILIATIONS

American Society of Landscape
Architects

RELEVANT PROJECT EXPERIENCE

STREETSCAPES

- Alcosta Boulevard Streetscape Planting, San Ramon, CA
- Bay Street Memorialization, Emeryville, CA
- Caltrans 101 – Hillsdale/Bay Meadows, San Mateo County, CA
- California Avenue Transit Hub, Palo Alto, CA
- College of Alameda Entry, Alameda, CA
- Contra Costa Boulevard, Pleasant Hill, CA
- Crow Canyon Road and Bollinger Canyon Road, San Ramon, CA
- Del Norte Area Guidelines, El Cerrito, CA
- Fairfield Gateways, Fairfield, CA
- Gateway Signage Study, San Leandro, CA
- Hacienda / Dublin Boulevard, Dublin, CA
- Harbor Center, Suisun City, CA
- Landscape and Irrigation Standards, San Ramon, CA
- Marina Bay Grade Separation, Richmond, CA
- Midtown North Main Street, Milpitas, CA
- Positano Streetscape, Dublin, CA
- San Pablo Avenue, El Cerrito, CA
- San Ramon Valley Boulevard Entry Gateway, San Ramon, CA
- San Ramon Valley Boulevard Planline Study, San Ramon, CA
- State Route 242 Widening, Caltrans District 4, Contra Costa County, CA



KIMMY CHEN

LANDSCAPE ARCHITECT PROJECT MANAGER

Kimmy Chen has managed numerous projects both in public and private sectors. Her skills include the creation of project concept, design development, cost estimating, construction document production and construction administration. One of Kimmy's areas of focus is environmentally sustainable designs, including LEED and Bay-Friendly design criteria. She is a Bay-Friendly Qualified Landscape Professional. Her rich creative designs are memorable, sensitive to the cultural and historical setting of a site, educational and functional. Kimmy's broad cultural background, together with her great graphic and presentation skills, has added versatility to her design approach and successful management of design projects.

RELEVANT PROJECT EXPERIENCE

STREETSCAPE

- 3rd Street Promenade Project, Morgan Hill, CA
- California Avenue Transit Hub, Palo Alto, CA
- Depot Street Master Plan, Morgan Hill, CA
- Depot Street Reconstruction Project, Morgan Hill, CA
- Fairfield Corporate Commons Master Plan, Fairfield, CA
- Los Altos First Street Concept Plan, Los Altos, CA
- Los Altos Loyola Corner Concept Plan, Los Altos, CA
- Milpitas Midtown North Main Streetscape, Milpitas, CA
- Morgan Hill 3rd Street Master Plan, Morgan Hill, CA
- Peralta Street & Martin Luther King Jr. Way Streetscape Design, West Oakland, CA
- Pinole Valley Road Entry Gateway Master Plan, Pinole, CA
- Richmond Transit Village, Richmond, CA
- San Pablo Avenue Rain Gardens, El Cerrito, CA
- Southgate Neighborhood Storm Drain Improvements, Palo Alto, CA
- Saratoga Downtown Pedestrian Enhancements, Saratoga, CA
- Stone Valley Road Beautification and Improvement Plan, Alamo, CA

ENVIRONMENTALLY SENSITIVE

- Belmont Library, Belmont, CA
- Castro Valley Library, Castro Valley, CA (Bay-Friendly Rated, LEED)
- Milpitas Main Library, Milpitas, CA
- Mitchell Park Library, Palo Alto, CA
- Roosevelt Community Center, San Jose, CA (LEED Gold)
- San Leandro Senior Center, San Leandro, CA (Bay-Friendly Rated)
- Saratoga Village Pedestrian Enhancements, Saratoga, CA

AREAS OF EXPERTISE

- Green/Sustainable Design
- Design Review
- Construction Documents
- LEED Requirements
- Bay Friendly Landscape Requirements
- Construction Review
- ADA Requirements

REGISTRATION

Landscape Architect # 5072
California 2005
Expiration: March 31, 2018

PROFESSIONAL EXPERIENCE

Gates & Associates,
1997 - Present

EDUCATION

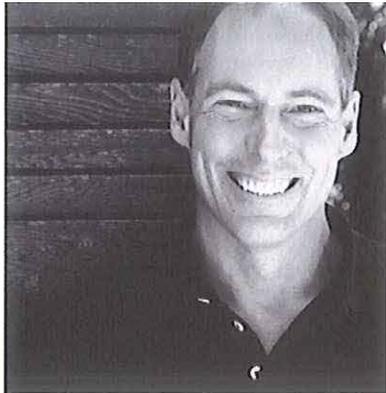
M.L.A, Landscape Architecture,
U.C. Berkeley, 1997
B.S., Horticulture,
National Taiwan University,
Taipei, Taiwan, 1994

PROFESSIONAL AFFILIATIONS

Guest Speaker,
University of Maryland,
March, 2001
Instructor,
Chabot Community College, CA,
Spring, 2006

LANGUAGE FLUENCY

English
Mandarin
Taiwanese
Japanese



JEFF BRADSHAW

CERTIFIED IRRIGATION DESIGNER

Jeff Bradshaw has two decades of experience in various aspects of irrigation including design, plan review, design review, irrigation and water management, master planning, hydraulic calculation, project specifications, field observation, irrigation scheduling, water usage calculation and irrigation water auditing. He is a Professional Member of the American Society of Irrigation Consultants and has served as Vice President and Secretary. He is also an Associate Member of the Irrigation Association and a certified Commercial Irrigation Designer with the Irrigation Association.

Jeff 's project experience includes irrigation design of commercial and industrial projects, residential communities, parks and athletic fields, large recreational facilities and several major highway projects, many of which included the usage of reclaimed water. He also provides irrigation plan checking and field inspection services for public agencies. As a result of Jeff 's expertise, Gates + Associates has prepared irrigation standards, ordinances and guidelines for various City and County agencies.

CERTIFICATIONS

Certified Landscape Irrigation Auditor (CLIA)
Commercial Irrigation Designer (CID), #002794 , Irrigation Association 1998

PROFESSIONAL EXPERIENCE

Senior Irrigation Designer, Gates & Associates, 1996 - Present
AutoCAD Consultant for product specifications and details, Agrifim, Nibco, Pepco, NDS, 1992-1998
Irrigation Designer / CAD Manager, Brookwater, Inc., 1989-1996

EDUCATION

Irrigation Design Certificate, Polytechnic University, San Luis Obispo, CA, 1995
A.A. Electronic-Mechanical Design and Drafting, Las Positas Community College, Livermore, CA, 1992
AutoCAD Certifications in Levels, 1, 2, 3 and 3D
AutoCAD Customization
AutoLisp

PROFESSIONAL AFFILIATIONS

Professional Member, American Society of Irrigation Consultants (ASIC) 1998 - Present
Associate Member, Irrigation Association (IA) 1998 - Present

AREAS OF EXPERTISE

- Irrigation System Design
- Irrigation Water Auditing
- Construction Documents
- Construction Review
- CAD Design
- Cost Estimating
- Design / Standards Review
- WELO
- Water Use Calculation
- Irrigation Scheduling
- Technical Review
- Water Systems

PROJECT EXPERIENCE

LEED/BAY-FRIENDLY IRRIGATION DESIGN

- Castro Valley Library, Castro Valley, CA
- Claremont Library, Berkeley, CA
- Doyle Hollis Park, Emeryville, CA
- Jack Holland Park, San Lorenzo, CA
- Roosevelt Community Center, San Jose, CA
- San Leandro Senior Center, San Leandro, CA
- Skyline College, San Bruno, CA
- Tully Library, San Jose, CA
- West Sacramento Community Center, West Sacramento, CA
- City of Hayward Water Conservation Program Audits, Hayward, CA

ON-CALL

- DSRSD – On-Call Services for Plan Check Review of Recycled Water Irrigation Systems
- Contra Costa County On-Call Plan Check and Inspection Services
- • Cordova Recreation & Park District On-Call Plan Review
- Mitchell Park Library, Palo Alto, CA
- Roosevelt Community Center, San Jose, CA (LEED Gold)
- San Leandro Senior Center, San Leandro, CA (Bay-Friendly Rated)
- Saratoga Village Pedestrian Enhancements, Saratoga, CA

KEN NGAI, PE, LEED AP

LEAD ELECTRICAL ENGINEER

Mr. Ngai has thirty years of broad experience in management, engineering, design and construction supervision of electrical systems for streetscape, transportation, infrastructure, electric utilities, sports facilities, parks, educational, institutional, high technology, R&D, industrial, clean rooms and laboratories, and commercial projects.

Management experience includes corporate contractual responsibilities, project management and administration including determination of project technical requirements, establishment of project organization, schedules, budgets, and project procedures for effective communication, coordination, quality controls, progress monitoring and problem discovery and resolution.

RELEVANT EXPERIENCE

Route 238 Corridor Improvements Hayward, CA

- Lead Electrical Engineer
- Pedestrian and bicycle improvements along Foothill Boulevard in downtown Hayward have pedestrian-friendly 14-foot sidewalks and a dedicated bike lane.
- Oversaw LED roadway, pedestrian and parking lot lighting with controls to reduce the lighting level during off hours Agencies
- Coordinated with City of Hayward, Caltrans and design team

Marina Bay Parkway Grade Separation, Richmond, CA

- Lead Electrical Engineer
- Vehicle, Rail, Pedestrian Grade Separation
- Implemented Complete Street Lighting Design
- Oversaw LED roadway and pedestrian and monument lighting systems

Blossom Hill Station Pedestrian Overcrossing, San Jose, CA

- Lead Electrical Engineer
- Pedestrian Overcrossing of UPRR & Caltrain High Speed Commuter Trackway
- Connections to Train Station Platforms & Public Streets on Both Sides of Ped Overcrossing
- Coordinated lighting design with City of San Jose, CPUC and UPRR
- Assisted electrical installation during construction

Transit Mall Lighting Improvements, San Jose, CA

- Lead Electrical Engineer
- Platform and canopy lighting improvements for ADA compliance
- Intersection lighting modifications
- Oversaw retrofitting of the existing mounted twin luminaire for street and pedestrian lighting with new smooth round cast aluminum pole, 12'-11" AFG to top and dual bracket historic-style fixtures
- Supervised Development of Plans, Specifications, and Estimate
- Provided construction support services

580 WB HOV Lane Widening Project, Alameda County, CA

- Lead Electrical Engineer
- 13 miles of Highway Widening
- Six Bridge Construction
- Project Report and EIR
- 2 PS&E Contracts
- Mandatory/Advisory Fact Sheet Exception Reports
- Utility Mapping & Conflict Resolution Coordination/Relocation
- Detailed Stage Construction & Traffic Detours
- Multi-Jurisdictional Approval
- Environmentally Sensitive Areas and Constraints
- Roadway Rehabilitation Analysis



EDUCATION

BS, Electrical Engineering, Purdue University, West Lafayette, IN

REGISTRATION

Professional Civil Engineer, CA E11537

AFFILIATIONS

LEED Accredited Professional, USGBC

YEARS WITH AEC

14 Years

TOTAL YEARS EXPERIENCE

30 Years

GARY PARIKH, PE, GE

GEOTECHNICAL ENGINEER



Gary Parikh has over 44 years of experience in managing, supervising, and conducting geotechnical investigations and materials engineering services on a broad spectrum of projects. Gary is responsible for technical consultations, engineering supervision, maintaining technical standards, and communications. Past projects include:

Moraga Way Pavement Rehabilitation, Orinda, Contra Costa County, CA

Provided pavement rehabilitation on Moraga Way between Camino Encinas south and the Bryant Way on-ramp to State Route 24. In addition, pedestrian improvements were made on Moraga Way between Camino Pablo and Bryant Way in the downtown area. Pedestrian improvements provided improved crosswalks that included curb bulb-outs at the intersection of Moraga Way and Brookwood Road and curb bulb-outs at the intersection of Moraga Way and Southwood Drive. Provided pavement subgrade testing and pavement design included evaluation of existing overlay and reconstruction options considering the existing soil condition and surrounding grades. Work was completed on schedule and within budget.

Main Street Between Norcross Lane to 2nd Street, Oakley, Contra Costa County, CA

Proposed project will improve the Main Street for streetscape project between Norcross Lane to 2nd Street in Oakley. The pavement will be widened in the outside portion. Project also included monument sign. Supplemental work also included coring for the existing pavement section at various locations to measure the overall pavement conditions. Pavement design recommendations were provided using Caltrans standards.

Laurel Rd Widening Between O'hara Avenue to Rose Avenue, Contra Costa County, CA

PARIKH provided Geotechnical Engineering report for the proposed pavement widening along Laurel Road between O'Hara and Rose Avenue in Oakley. PARIKH provided engineering analyses included pavement design recommendations in accordance with Caltrans design standards for the proposed widening. Report also included small retaining wall design recommendations. Pavement design is based on the Traffic Index provided and the R-value tests.

Kirker Pass Road Truck Climbing Lane, Contra Costa County, CA

The project will include roadway widening along the south side of the Kirker Pass Road to accommodate the proposed truck climbing lanes. The project includes five retaining walls most of them in fill. Two of the walls are in major cuts that are in complex geologic conditions requiring special wall designs. All work was performed in accordance with County requirements, including coordination with the CCWD (water tank site), Concord, and the County permits. Studies also included downhole Televue for bedrock/slide mapping, geophysical testing and installation of inclinometers for monitoring slopes during construction.

Bernal Avenue at Interstate 680, City of Pleasanton, Alameda County, CA

Project included widening of the existing ramps at Route 680 and along Bernal Avenue in Pleasanton. Provided geotechnical investigation report for new pavement section, short retaining walls in accordance with Caltrans guidelines.

Rte. 92 Reliever project for City of Hayward, Alameda County, CA

The Interstate 880/Rte. 92 Reliever Route through Hayward required improvements to the existing Winton Avenue, Cabot Boulevard and extension of the roadway through Whitesell Avenue to connect to Rte. 92. The proposed project will widen about 4800' of roadway at the north and south end of the alignment. In addition about 2100 feet of new roadway is through existing properties just south of Depot Road. Project also included utilities relocations, storm drain, water lines and sewer lines.

EXPERTISE

Geotechnical,
Environmental,
Construction
Materials
Engineering

EDUCATION

B.S., Civil
Engineering,
M.S. University,
India, 1970
M.S., Geotechnical
Engineering,
U.C. Berkeley, 1971

REGISTRATION

Civil Engineer, CA
C-24227, 1973
Geotechnical
Engineer,
CA G.E. 666, 1987

BKF Engineers has a long and successful record of delivering intersection projects involving pedestrian improvements, traffic signal modifications, stage construction and right of way engineering. Below is a selected few recent projects that are similar to the City of Oakley projects that demonstrate BKF's experience and knowledge. We are proud of these projects and the relationships we forged with our clients. Please use each project contact as a reference; we urge you to contact our clients to substantiate our efforts and commitment.

DUANE AVENUE PAVEMENT RECONSTRUCTION Sunnyvale, CA

Ms. Lilliana Price, (408)-730-7543, lprice@sunnyvale.ca.gov

City of Sunnyvale
456 West Olive Avenue
Sunnyvale, CA 94086
Dates of Service: 2013 – Current



DOANE AND DREW AVENUES RECONSTRUCTION Mountain View, CA

Mr. Andy Chang, (650) 903-6522, Andy.Chang@mountainview.gov

City of Mountain View
Public Works Department
500 Castro Street
Mountain View, CA 94039-7540
Dates of Service: 2014 – 2016



HIGHWAY 9/UNIVERSITY AVENUE INTERSECTION PROJECT Los Gatos, CA

Mr. Jessy P, (408) 395-2859, jpu@losgatosca.gov

Town of Los Gatos
110 East Main Street
Los Gatos, CA 95030
Dates of Service: 2010 – 2014



LOS ALTOS DOWNTOWN STREET IMPROVEMENTS Los Altos, CA

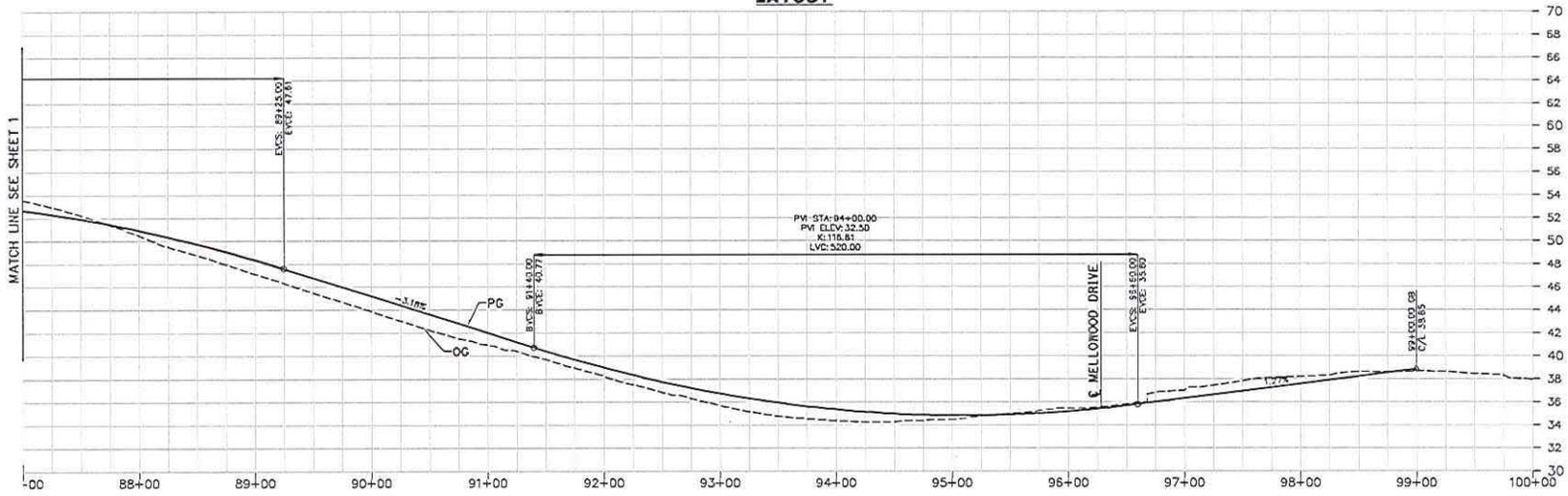
Mr. Dave Brees, (650) 947-2888, dbrees@losaltosca.gov

City of Los Altos
1 North San Antonio Road
Los Altos, CA 94022
Dates of Service: 2011-2014



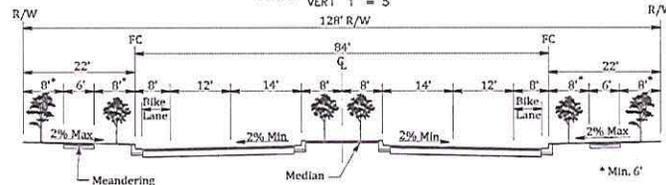


LAYOUT



PROFILE

SCALE: HORIZ 1" = 50'
VERT 1" = 5'



FOUR LANE DIVIDED

1720 N. FIRST STREET
SUITE 200
OAKLEY, CA 94621
415-467-8100
415-467-9119 (fax)



LAUREL ROAD WIDENING PROJECT
ROSE AVENUE TO MELLOWOOD DRIVE

CA

CONTRA COSTA

OAKLEY

Project No.	1720-01
Client	City of Oakley
Design Lead	BKF
Project Manager	BKF
Drawn	BKF
Checked	BKF
Approved	BKF
Date	08/17/2018

**City of Oakley
CIP No. 196 - Laurel Road Widening Project
(Rose Avenue to Mellowood Drive)**

TASK	SCOPE DESCRIPTION	STAFF CATEGORY										Total Hrs	EST FEE	
		PIC (Natalina Bernard)	PM (Marcelo Cosentino)	Associate (Davis Thresh)	QA/QC (Carmelo Cecilio)	Engineer III/ Survey III	Engineer II/ Survey II	Engineer I/ Survey I	Drafter III	Field Surveyor	Admin			
		\$223.00	\$184.00	\$200.00	\$184.00	\$151.00	\$138.00	\$120.00	\$119.00	\$262.00	\$63.00			
Task 1	Project Start-Up & Site Investigation													
	Attend Project Kick-off Meeting	2	2										4	\$ 814.00
	Obtain/Review Existing Data, As-builts					2	4						6	\$ 854.00
	Background/Supplemental Survey			4		8	4	32		24			72	\$ 12,688.00
	Right of Way Record Boundary		1	2			4	4					11	\$ 1,616.00
	Map Existing Utilities						4		4				8	\$ 1,028.00
	Project Meetings	2	4										6	\$ 1,182.00
	Quality Control		2		4		2						8	\$ 1,380.00
	Subtotals	4	9	6	4	10	18	36	4	24	-	-	115	\$ 19,562.00
Task 2	Analysis and Concept Design													
	Preliminary Conceptual Design												0	\$ -
	Evaluate/Prepare response to Comments												0	\$ -
	Final Conceptual Design and Order of Magnitude Budget												0	\$ -
	Subtotals	-	-	-	-	-	-	-	-	-	-	-	-	\$ -
Task 3	Design Development													
	35% Level Design Development Package	1	4		4	8	8		12				37	\$ 5,435.00
	Storm Water Treatment Memo and Design		4			8	12	4	4				32	\$ 4,556.00
	Coordination													
	Send out Notices to Utility Owners						2						2	\$ 276.00
	Utility Coordination & Coordination with Other Projects		2			4	8		12				26	\$ 3,504.00
	Subtotals	1	10	-	4	20	30	4	28	-	-	-	97	\$ 13,771.00
Task 4	Construction Documentation													
	Evaluate/Prepare response to Comments from 35% Design		2			2	8						12	\$ 1,774.00
	Prepare 65% Submittal Package/PS&E		8		2	14	24	28	34		2		112	\$ 14,798.00
	Evaluate/Prepare response to Comments from 65% Design		2			2	4						8	\$ 1,222.00
	Prepare 90% Plan Check Submittal Package/PS&E		6		2	12	22	24	30		2		98	\$ 12,896.00
	Evaluate/Prepare response to Comments from 90% Design		2			2	4						8	\$ 1,222.00
	Prepare 100% Final Submittal Package/PS&E		4		2	8	14	20	20		2		70	\$ 9,150.00
	Evaluate/Prepare response to Comments from 100% Design		2			2	4						8	\$ 1,222.00
	Prepare Bid-Ready Documents		2		2	8	10	10	8		2		42	\$ 5,602.00
	Prepare Stage Construction & Traffic Handling Plans		4		1	8	8		4				25	\$ 3,708.00
	Evaluate/Prepare response to Comments		2		1	4							7	\$ 1,156.00
	Prepare Final Stage Construction & Traffic Handling Plans	1	2		1	4	4	6	2				20	\$ 2,889.00
	Subtotals	1	36	-	11	66	102	88	98	-	8	-	410	\$ 55,639.00
		PIC (Natalina Bernard)	PM (Marcelo Cosentino)	Associate (Davis Thresh)	QA/QC (Carmelo Cecilio)	Engineer III/ Survey III	Engineer II/ Survey II	Engineer I/ Survey I	Drafter III	Field Surveyor	Admin	Total	Total Labor	
Totals By Classifications		6	55	6	19	96	150	128	130	24	8	1,822	\$ 88,972.00	
Total Direct Labor		\$ 1,338.00	\$ 10,120.00	\$ 1,200.00	\$ 3,496.00	\$ 14,496.00	\$ 20,700.00	\$ 15,360.00	\$ 15,470.00	\$ 6,288.00	\$ 504.00	\$ 88,972.00		

**City of Oakley
CIP No. 196 - Laurel Road Widening Project
(Rose Avenue to Mellowood Drive)**

TASK	SCOPE DESCRIPTION	STAFF CATEGORY										EST FEE
		PIC (Natalina Bernard)	PM (Marcelo Casentino)	Associate (David Thresh)	QA/QC (Carmelo Cecilio)	Engineer III/ Survey III	Engineer II/ Survey II	Engineer I/ Survey I	Drafter III	Field Surveyor	Admin	
		\$229.00	\$184.00	\$200.00	\$184.00	\$151.00	\$138.00	\$120.00	\$119.00	\$262.00	\$63.00	
Subconsultant												
		Task 1	Task 2	Task 3	Task 4							
	Gates + Associates (Landscaping)	\$5,750.00		\$ 2,010.00	\$ 9,470.00							\$ 17,230.00
	AEC Engineers (Lighting/Electrical)	\$1,200.00			\$ 15,430.00							\$ 16,630.00
	Parikh Consultants (Geotechnical)	\$8,032.83										\$ 8,032.83
	Subconsultant Costs											\$ 41,892.83
Reimbursable												
	Printing, Deliver, Mileage, Postage, Parking											\$ 1,775.17
	Reimbursable											\$ 1,775.17
PROJECT TOTAL												\$ 132,640.00

Assumptions:

1. Environmental services and project environmental clearance will be provided by the City.
2. Geotechnical services for the roadway widening only. BKF will provide separate fee for retaining wall design if required.
3. Structure engineering services will be provided separately, as necessary for retaining wall design.
4. It is understood by BKF that the parcel acquisition for the north side widening of Laurel Avenue will be completed under CIP 191 in coordination with CIP 196.

RESOLUTION NO. ___-16

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF OAKLEY APPROVING AN AGREEMENT WITH BKF ENGINEERS, INC. FOR ENGINEERING DESIGN SERVICES ASSOCIATED WITH LAUREL ROAD WIDENING (ROSE AVENUE TO MELLOWOOD DRIVE) PROJECT NUMBER 196 AND AUTHORIZING THE CITY MANAGER TO EXECUTE THE AGREEMENT

WHEREAS, as part of the Fiscal Year 2016/17 Budget, the City of Oakley approved a 5-Year Capital improvement Program (CIP); and

WHEREAS, Project Number 196 is to design the improvements for the Laurel Road Widening Project (Rose Avenue to Mellowood Drive); and

WHEREAS, after a formal review and evaluation of the proposals from four (4) design consultants, BKF Engineers, Inc., was selected as the top qualified firm to perform this design service; and

WHEREAS, BKF Engineers, Inc., has submitted a proposal to prepare design services for CIP Project Number 196 for an amount not to exceed \$132,640; and

WHEREAS, The FY 2016/17 CIP budget includes \$120,000 for the design of this project; and

NOW, THEREFORE, BE IT RESOLVED AND ORDERED, that the City Council of the City of Oakley hereby approves the proposal with BKF Engineers, Inc. for the preparation of engineering concept design drawings, and cost estimates for CIP Project Number 196 for an amount not to exceed \$132,640, in the form attached hereto as Exhibit A, and authorizes the City Manager to execute into the agreement. An additional \$12,640 from the TIF fund is also allocated for fully funding this design contract.

PASSED AND ADOPTED by the City Council of the City of Oakley at a meeting held on the 13th of September, 2016 by the following vote:

AYES:
NOES:
ABSENT:
ABSTENTIONS:

APPROVED:

ATTEST:

Kevin Romick, Mayor

Libby Vreonis, City Clerk

Date