

**AMENDMENT TO
“AGREEMENT FOR PROFESSIONAL CONSULTING SERVICES”**

THIS AMENDMENT TO AGREEMENT FOR PROFESSIONAL CONSULTING SERVICES is made and entered into as of February 28, 2024 by and between the CITY OF IRVINE, a municipal corporation (“City”) and MARK THOMAS & COMPANY, INC., a California corporation (“Consultant”), for the purpose of amending the written “Agreement for Professional Consulting Services” entered into between City and Consultant as of March 27, 2024, City of Irvine contract number 21231 (the “Agreement”). Consultant is included on the City of Irvine 2024 On-Call Program List.

1. PART V, BUDGET, is modified to implement a not-to-exceed project contract value of \$341,004.00 for the Scope of Work in accordance with EXHIBIT I, attached hereto.
2. Except as set forth in this Amendment, all terms, conditions and provisions of the Agreement are unchanged and remain in full force and effect.

(Signatures follow on next page)

IN WITNESS WHEREOF, the parties hereto have caused this Amendment to the Agreement to be executed by their respective duly authorized agents as of the date first set forth above.

CITY OF IRVINE

MARK THOMAS & COMPANY, INC.

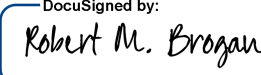
Signed by:
By: 
3342447EB1894B8...
Luis Estevez

Signed by:
By: 
CA806E0D547E42F...
Zach Siviglia

Its: Acting Director of Public Works & Sustainability

Its: President


Signed by:
By: 
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Oliver C. Chi

DocuSigned by:
By: 
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Robert M Brogan

Its: City Manager

Its: Secretary

Attest:

DocuSigned by:
By: 
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Carl Petersen

Its: City Clerk

APPROVED AS TO FORM:
RUTAN & TUCKER, LLP

DocuSigned by:
By: 
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Jeffrey Melching



MARK THOMAS

January 09, 2025

Amir Ainechi, Senior Transportation Analyst
City of Irvine, Public Works & Sustainability
1 Civic Center Plaza,
Irvine, CA 92606

Dear Mr. Ainechi,

The City of Irvine (City) is moving forward with the Project Report and Environmental Document (PR/ED) for the Jamboree Road and Irvine Boulevard Intersection Improvement Project that was identified in the North Irvine Transportation Mitigation (NITM) Program. This intersection borders the cities of Irvine and Tustin, wherein the easterly leg of the intersection presides within City of Irvine, and the remaining legs of the intersection preside within the City of Tustin. This project will provide capacity enhancements and improve operations at the intersection. For 98 years, Mark Thomas has provided civil and structural engineering, landscape architecture, land surveying, and utility coordination for active transportation and municipal projects to local agencies throughout California. We bring significant experience in the planning, design and management of the key project elements that this project requires. Mark Thomas will provide the City with a creative and cost effective design that minimizes impacts to the adjacent properties and businesses that flank the project area. We pride ourselves on taking a proactive, solution-based approach, anticipating project challenges and getting ahead of them by tailoring solutions to address those challenges. Our team brings the City the following benefits:

- **Proven Ability to Deliver for the City.** Our team members have established strong working relationships with City staff and are intimately familiar with the City's processes and policies from having worked on significant City projects including the **Bake Parkway and Jeronimo Road PR/ED, South Yale Avenue Improvements PR/ED, Jeffrey Road/Irvine Center Drive Widening PR/ED, Venta Spur Trail over SR-133 Bike/Ped Bridge and JOST Bridge over I-5.** Through this experience, Mark Thomas confidently understands the challenges and goals for this project. We are committed to providing the City with exceptional client service and ample resources to keep your project on schedule and within budget. We will work closely with City staff and key stakeholders to ensure a successful and seamless project delivery.
- **A Dedicated Team Led by the Right Project Manager.** The Mark Thomas team has been thoughtfully assembled for this project. **Our Project Manager, Alan Su, has 25 years of experience in intersection, freeway, roadway, and local road improvement experience throughout Orange County, as well as significant planning and engineering experience with the City of Irvine.** Our Project Director, Pat Somerville, PE, has over 20 years of delivering projects for the City of Irvine. In addition, we are bringing on our expert subconsultant partners who are highly qualified to deliver their respective elements of final design. The team includes **LSA Associates, Inc. for Environmental and traffic analysis, Monument ROW for Right-of-Way, and Verdantas, Inc. for Phase I – ISA.** Mark Thomas has worked with all three of our subconsultants on various projects throughout the years including projects for the City.
- **Our Expertise Aligns with the Project Features.** Our team has successfully led the planning, design, and delivery of hundreds of roadways, intersections and widening improvement projects. Through our experience, we have developed the expertise that is essential to implementing projects to improve intersection operations and overall community connectivity. We will leverage our unmatched understanding of roadway geometrics, active transportation design, and traffic engineering to deliver this project.

If you have any questions about our proposal, please contact Alan Su at (949) 382-5904 or via email at asu@markthomas.com. We appreciate the opportunity to submit our proposal for this project. Our team is excited to help you deliver this project and we look forward to working with you and your staff. Thank you for the opportunity to submit our proposal. We are very excited about this project and look forward to continue working with the City.

Sincerely,

MARK THOMAS & COMPANY, INC.

Pat Somerville, PE

Associate Principal & Project Director

Alan Su, PE

Project Manager



SCOPE OF WORK

TASK 1: PROJECT MANAGEMENT/ COORDINATION AND ADMINISTRATION

1.1 MEETINGS

A project kick-off meeting will be conducted to confirm the required Scope of Services and design parameters. Project Development Team (PDT) meetings will be conducted monthly throughout the duration of project to track the overall project and facilitate the flow of information between the City, Mark Thomas, and all other stakeholders. Additional as-needed meetings will be held to address specific concerns. Agenda and meeting minutes will be generated for each meeting. Assumed 12 meetings for the duration of the project.

1.2 CITY AND COMMUNITY MEETINGS/ WORKSHOPS/PRESENTATION EXHIBITS

Mark Thomas three (3) city commission/council meetings assisting City staff in the preparation of exhibits, presentations, and responding to community input. It is assumed City will be leading the community effort. Mark Thomas will provide support to City staff.

1.3 PROJECT MANAGEMENT/COORDINATION/ PROGRESS REPORT

Mark Thomas will provide coordination with both Irvine and Tustin City staff as well as other stakeholders as required. These may include OC Parks, utility owners, and adjacent property owners or management companies.

Mark Thomas will provide monthly progress report to describe the worked performed within the month and work to be performed in the following month.

DELIVERABLES

- » Project Meetings/Agenda/Exhibits/Minutes
- » City and Community Meetings/Workshop/Presentation Exhibit for Public Meeting
- » Project Management/Coordination/Progress Report

TASK 2: RESEARCH AND REVIEW

2.1 DATA COLLECTION

Mark Thomas will collect existing and readily available information from the cities and other agencies, including as-built plans, reports, agreements, assessor parcel data, tract and parcel maps, and right of way information.

2.2 SITE VISITS

Mark Thomas will conduct field site visits to verify record information for the preliminary plans and Project Report.

2.3 UTILITY COORDINATION

Mark Thomas will send out utility notices to all utility companies that potentially have facilities within the project limits. Responses will be logged and reported in the Project Report. Existing utility information will be plotted in the base maps with respective utility disposition. Mark Thomas will research the project including utility prior rights and agreements to document proof of property right and cost responsibility.

2.4 RIGHT-OF-WAY AND PARCEL MAPPING

Utilizing the information gathered from assessor parcel, tract, parcel maps, and record of survey, Mark Thomas will review and analyze said information. Mapping will be developed based on the available record/public information listed above. Mark Thomas will review the delineated existing right of way for the existing area within the project limits. It is assumed that a Record of Survey will not be required.

DELIVERABLES

- » Data Collection
- » Site Visits

- » Utility Coordination
- » Right-of-way base map

TASK 3: AERIAL TOPOGRAPHIC MAPPING

3.1 SURVEY CONTROL AND AERIAL MAPPING

Mark Thomas will obtain aerial topographic mapping along and near Jamboree Road and Irvine Blvd alignments within the project limits. Topography will be produced at design level scale of 1" = 40' with a 1' contour interval with a DTM. Accuracy to conform to generally accepted photogrammetric standards as established by the American Society of Photogrammetry and Remote Sensing (ASPRS).

Mark Thomas will set ground control targets to establish horizontal and vertical control information. Aerial control will be based on the Orange County Surveyor's (OCS) horizontal and vertical survey control network Mark Thomas will conduct a limited search to locate some existing centerline monuments within the project area.

Found monuments will be located using a Total Station or GPS and included in the base map.

DELIVERABLES

- » Aerial topographic base map
- » Electronic file of the aerial topographic base map
- » Digital orthophoto tiff file(s)

TASK 4: TRAFFIC ANALYSIS

The Mark Thomas team will research available existing and future a.m. and p.m. peak-hour traffic volume data and conduct AM and PM peak hour traffic counts for the intersection of Jamboree Road/Irvine Boulevard. Additionally, the Mark Thomas Team will utilize the Irvine Transportation Analysis Model (ITAM) to obtain future (near-term and long-range [build-out]) AM and PM peak-hour traffic volumes for project.

Level of Service (LOS) analysis for AM and PM peak hours will be conducted for project utilizing the Intersection Capacity Utilization (ICU) and Highway Capacity Manual (HCM) methodologies. The LOS analysis will be performed for existing, near-term, and build-out conditions; without any improvements; with the original North Irvine Transportation Mitigation (NITM) improvements; and with up to two (2) alternative lane configurations. A total of twelve (12) scenarios will be evaluated. The LOS analysis will determine what improvements are necessary for Jamboree Road/Irvine Boulevard to operate at a satisfactory LOS.

A technical memorandum summarizing the traffic analysis methodologies, results, and recommendations. The technical memorandum will include any conceptual graphics and LOS (ICU and HCM) worksheets. One (1) revision to the traffic analysis and technical memorandum based on one (1) round of consolidated comments from the City of Irvine and/or the City of Tustin.

If the City of Irvine and/or the City of Tustin require additional data collection, analyses, ITAM runs, revisions, and/or meetings, a subsequent proposal will be submitted.

TASK 5: PREPARE PRELIMINARY DESIGN PLANS

5.1 PRELIMINARY GEOMETRIC ALTERNATIVES

Mark Thomas will develop up to three (3) project alternatives to achieve the desired lane configuration. Alternatives will consider lane widths, sidewalk widths, median island modifications, right of way impact, and utilities impacts. These alternatives will be prepared in strip maps format. Mark Thomas will review and discuss with City staff on these alternatives and present these alternatives to the PDT members. PDT members will review and determine a preferred alternative for the project.

5.2 PRELIMINARY GEOMETRIC CONCEPT PLANS

Mark Thomas will develop project concept plans based on the preferred alternative option from Task 5.1. Project concept plans will be included in the Project Report. Preliminary plans will include:

- Preliminary geometric plans and profiles,
- Typical sections,
- Proposed striping layout,
- Grading limits and impact to drainage,
- ADA accessibility,
- Utility impacts,

- Existing and proposed right of way information and the associated parcel data, and
- Proposed improvements will need to conform to City of Irvine standard plans and design guidelines or manuals.

DELIVERABLES:

- » Preliminary Geometric Alternatives
- » Preliminary Geometric Plans/Profiles

TASK 6: PREPARE PROJECT REPORT

6.1 DRAFT PROJECT REPORT

Mark Thomas will develop a draft Project Report based on City's outline as described in Exhibit B of the project RFP. Additionally, Project Report will also need to identify the type of variance needed and document the reasons for such variance. It is assumed two rounds of reviews before the final report.

6.2 FINAL PROJECT REPORT

Mark Thomas will develop a final Project Report by incorporating City and stakeholder comments, documenting public feedback for the project, and any changes due to the final Environmental Document.

6.3 COST ESTIMATES

Preliminary-level cost estimates will be developed and included in the Project Report. Mark Thomas will develop preliminary level cost estimates for the three alternatives and will be based on the recent construction bid data.

Estimates will include detailed quantities for major work items, right of way acquisitions (permanent and temporary construction easements), utility relocations, permits, and drainage improvements.

DELIVERABLES:

- » One (1) electronic copy of the draft Project Report, including cost estimates
- » One (1) electronic copy of the final Project Report, including cost estimates

TASK 7: PRELIMINARY WATER QUALITY MANAGEMENT PLAN (WQMP)

7.1 DRAFT PRELIMINARY WQMP

A draft Preliminary WQMP will be developed based on the City and County of Orange requirements. It is assumed two rounds of review before the final report.

7.2 FINAL PRELIMINARY WQMP

A final Preliminary WQMP will be prepared to address any project changes and comments received.

DELIVERABLES:

- » One (1) electronic copy of the draft Preliminary WQMP
- » One (1) electronic copy of the final Preliminary WQMP

TASK 8: ENVIRONMENTAL DOCUMENTS (CEQA/NEPA COMPLIANCE)

8.1 ENVIRONMENTAL PHASE I - ISA

A Phase I Initial Site Assessment (ISA) ISA will be conducted in general accordance with ASTM E1527-21 "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessments Process", and Caltrans "Project Development Procedures Manual."

A search of selected government databases will be ordered from an environmental database provider. The Mark Thomas team will review reasonably ascertainable historical sources of information that shows the subject site dating back to first developed use or back to 1940, whichever is earlier, and existing geotechnical and environmental reports for mention of environmental conditions at the site.

Attempt will be made to interview appropriate city, county, state, and federal agencies who may have information pertaining to previous mitigation projects (identified during the database review) for parcels adjacent to the project limits.

Observational reconnaissance of the project site for visual indications of environmental conditions, including aboveground and underground storage tanks or vent pipes, pools of liquid, sumps, drums, polychlorinated biphenyls (PCBs) containing equipment, stains or corrosion, stained soil or pavement, stressed vegetation, and solid waste. Land use of immediately adjacent properties will be observed and documented for any conditions indicative of contamination or potential contamination.

Reasonable attempt to interview present and/or past owners, lessees, key site manager, occupant, and employees for additional information about past and present site usage and local government officials for information regarding hazardous waste disposal or other environmental issues that may exist at the site.

The collected data will be evaluated and compiled in an appropriately illustrated ISA Report along with a checklist for inclusion in the environmental report.

DELIVERABLES:

- » Environmental Phase I – ISA

8.2 AIR QUALITY/GREENHOUSE GAS EMISSIONS/ENERGY

Air Quality. An air quality analysis for the proposed project in response to the Initial Study (IS) checklist questions. Analysis will be based on 1) baseline information from South Coast Air Quality Management District (SCAQMD) and California Air Resources Board (CARB), 2) construction impact based on California Emission Estimator Model (CalEEMod) and SCAQMD thresholds of significance, 3) a localized significance threshold analysis due to emission construction activities, 4) residential receptors impact due to construction activities. A construction health risk assessment (HRA) will be prepared; (5) potential odor impacts; and (6) a recommendation of mitigation measures consistent with SCAQMD guidelines. The proposed project is not expected to generate operational emissions; therefore, the air quality analysis will focus on the construction period.

Greenhouse Gas Emissions. A quantitative assessment of greenhouse gas emissions associated with all relevant sources related to the project and construction activity for which project data are available using CalEEMod. The proposed project is not expected to generate operational emissions; therefore, the greenhouse gas analysis will focus on the construction period.

Energy. This discussion will address the project’s compliance with applicable energy efficiency standards and will cross-reference the discussion provided in the greenhouse gas emissions discussion as necessary. Energy data estimated using the CalEEMod model will be reported.

The results of the above analysis will be summarized and included in the IS/MND.

8.3 BIOLOGICAL RESOURCES

A Biological Resources Assessment (BRA) will be developed for the project. Additional species and biological resource surveys are not anticipated; however, they will be recommended if site conditions warrant and regulatory requirements mandate. Completion of the BRA memo will include 1) Records search to identify sensitive species known or reported to occur within the project site, 2) biological resources survey: of the project site to map plant communities, assess habitat conditions, and evaluate potential impacts to sensitive biological resources from the project, and 3) summary of the record search results.

If project plans and/or the project description changes after the impact analysis has been conducted, and/or if additional rounds of comments are required, a budget augment will be necessary to complete the additional work

8.4 CULTURAL RESOURCES

The following cultural resources analysis is based upon a CEQA-level effort, negative findings (no cultural resources will be identified within the project area), and no involvement of state or federal agencies. It is expected that there would be no direct effect to the Irvine Historical Park given that the proposed improvements would be occurring on the west side of Jamboree Road.

For this task, we will perform the following:

- **Records Search.** We will conduct a cultural (prehistoric and historic) resource record review and literature search through the South Central Coastal Information Center (SCCIC) of the California Historical Resources Information System (CHRIS) located at California State University, Fullerton (CSUF). This is to determine whether previously recorded resources are within the project site. It is anticipated that the proposed project will result in “negative findings.”
- **Survey.** An archaeological field survey of the project area to identify evidence of cultural resources. It is anticipated the proposed project will result in negative findings. In the event of positive results, we will notify the client and a contract modification (requesting additional budget) will be submitted to document the resource(s) and provide assessment in the report.

A letter report of negative results will be prepared that will include methods, results, and recommendations. In the event of positive results, the report will be in the Office of Historic Preservation's Archaeological Resource Management Reports (ARMR): Recommended Contents and Format including cultural contexts, mitigation measures (if appropriate), and any associated cultural resource site documentation.

In the event of positive results, more than one round of comments or substantive issues develop necessitating any unanticipated effort (including, but not limited to: protracted coordination with the City, response to comments from entities other than the City, such as City attorney, third-party peer reviewer or Tribe are required, requirement for an ARMR format report), a contract amendment and budget modification will be required, and a schedule adjustment may also be necessary.

8.5 AB 52 CONSULTATION SUPPORT

As required under CEQA, specifically Public Resources Code (PRC) 21080.3.1 and Chapter 532, Statutes of 2014 (i.e., AB 52), Native American consultation is required for any CEQA project that has a Mitigated Negative Declaration (MND) filed on or after July 1, 2015. While this is a government-to-government process between the Lead Agency and any Native American tribes that request consultation per AB 52 or as identified by the Native American Heritage Commission (NAHC), we are available to assist with AB 52 consultation.

Tasks performed for AB 52 consultation assistance include: (1) contacting the NAHC on behalf of the Lead Agency for a search of the Sacred Lands File and a list of tribal contacts; (2) drafting a letter for the Lead Agency to send to the tribal contacts on official letterhead; (3) mailing the letters via Certified Mail; and (4) compiling a PDF file of consultation records (based on information provided by the Lead Agency) for inclusion in the IS/MND. If it is determined that a Categorical Exclusion is the appropriate level of CEQA documentation, AB52 consultation would not be required.

8.6 NOISE AND VIBRATION

An IS/MND Noise section for the proposed project to assess potential noise and vibration impacts on land uses adjacent to the project site in accordance with the applicable City noise standards, goals, and policies in the General Plan Noise Element and the Municipal Code for land uses adjacent to the project site. The vibration criteria in the 2018 Federal Transit Administration (FTA) Transit Noise and Vibration Impact Assessment Manual for land uses adjacent to the project site will also be discussed.

Three long-term ambient noise level measurements within the project area. The long-term ambient noise level will be documented for 24 hours. Noise sources in the project area will be identified. The ambient noise levels will be used to assess the existing ambient noise environment in the project vicinity.

Avoidance, mitigation, or minimization measures designed to reduce short- and long-term noise and vibration impacts to acceptable levels will be determined where necessary.

8.7 PALEONTOLOGICAL RESOURCES

An IS/MND section for Paleontological Resources will be developed. A fossil locality search through an accredited repository will be completed to establish the status and extent of previously recorded paleontological resources within the project area, as well as within the same or similar deposits as those found in the project area. We will document the results of this research, discuss the potential for the project to impact paleontological resources, and, if needed, include mitigation measures to minimize these impacts in the geology and soils section of the IS/MND for this project.

8.8 DRAFT CEQA INITIAL STUDY/MITIGATED DECLARATION

An Administrative Draft IS/MND will be prepared and submitted for City review. The format will be consistent with the City's IS Checklist, and the technical analyses will be incorporated into the IS/MND. We will respond to City comments on the Administrative Draft IS/MND; complete necessary revisions; and submit copies of the revised document for City review. This scope and budget assume one set of non-conflicting and consolidated comments.

DELIVERABLES:

- » Draft IS/MND for approval by City for public circulation
- » Five (5) hard copies and one electronic version (PDF) of the final Draft IS/MND for public circulation

8.9 PUBLICLY CIRCULATE DRAFT CEQA INITIAL STUDY/MITIGATED NEGATIVE DECLARATION

Upon receipt of City comments on the revised Draft IS/MND, we will revise the IS/MND and submit revised pages to the City for its review prior to distribution for public review.

In coordination with City staff, we will prepare a combined Draft Notice of Intent/Public Notice regarding the availability of the Draft IS/MND for public review, which will be mailed with the document for public review. The City will be responsible for the publication of the public notice in a general circulation newspaper. We will file a Notice of Completion with the State Clearinghouse to begin the required public review period. We will file the Notice of Intent/Public Notice with the Orange County Clerk-Recorder.

DELIVERABLES:

- » Draft NOI and NOC

8.10 RESPONSE TO COMMENTS

We will prepare written responses to comments received on the Draft IS/MND that raise substantive environmental issues and then submit the responses for review to City staff after the close of the public comment period. We will confer with City staff to review written comments and comments from any public meetings in order to develop a general framework and strategy for the preparation of responses.

It is assumed 40 hours will be required for the preparation of responses to comments, based on the assumption that the project will be noncontroversial and will not be subject to rigorous public scrutiny. If a considerably large number of comments are received, or if comments require additional technical analysis, a budget augment may be warranted.

DELIVERABLES:

- » Responses to comments (included in Final IS/MND)

8.11 FINAL CEQA INITIAL STUDY/MITIGATED NEGATIVE DECLARATION

After receipt of City comments the IS/MND will be finalized for Transportation Commission, Planning Commission, and City Council review. Revisions to the IS/MND will be shown in the text by a line in the margin, or a separate Errata document will be prepared, depending on the number of comments and City preference. Our scope and budget assume one set of non-conflicting and consolidated comments.

Prior to the City Council hearing on the project and the IS/MND, a Mitigation Monitoring and Reporting Program (MMRP) will be prepared to assist the City in implementing the mitigation measures contained in the IS/MND. The MMRP will outline the procedures for monitoring and complying with each mitigation measure, identify the agency/position responsible for the monitoring and reporting, and identify the timing for implementation. The Draft MMRP will be submitted to the City for review and comment, and the Final MMRP will be provided to the City along with the IS/MND. The MMRP will be included in the Final IS/MND adoption documents.

DELIVERABLES:

- » Draft Final CEQA IS/MND
- » Final CEQA IS/MND for concurrence/adoption

8.12 FILE NOTICE OF DETERMINATION

Following the City's approval of the IS/MND, we will prepare a Notice of Determination (NOD) to be submitted to the City for signature. We will file the NOD with the Orange County Clerk-Recorder following the City's adoption of the IS/MND. The City shall provide a check for all necessary filing fees to be submitted to the County Clerk with the NOD. Once the NOD is filed with the County Clerk, we will provide the original fee receipt and a copy of the filed NOD to the City for its records.

DELIVERABLES:

- » Draft and Final NOD

OPTIONAL TASKS

O.1 VMT ANALYSIS

Based on the project description in the RFP and review of the City's Traffic Study Guidelines, the proposed intersection enhancements (additional southbound through lane) at the Jamboree Road/Irvine Boulevard intersection would not

substantially change total VMT. As noted in the Traffic Study Guidelines, addition of a through lane that commences before an intersection and terminates downstream of the intersection is exempt from VMT analysis. As such, the proposed improvements are expected to be exempt from a VMT analysis with the presumption of a less than significant transportation impact and would be documented in the technical memorandum.

If the City determines that the project cannot be screened out, a VMT analysis would be conducted consistent with the City's Traffic Study Guidelines and using the ITAM. If a potentially significant increase in VMT is identified, the Mark Thomas team will work with the City to identify appropriate mitigation to reduce the increase to a less than significant level. If the Mark Thomas team is required to evaluate potential mitigation measures and/or quantify potential VMT reductions, a budget amendment may be required.

DELIVERABLES:

- » VMT Analysis

COST PROPOSAL FOR PROJECT SCOPE: Irvine CTP - PA/ED for Jamboree Road and Irvine Blvd Intersection Improvements (CIP 316080)

																	Total Hours	Total MT Cost	LSA	MONUMENT	VERDANTAS	TOTAL COST		
	Engineering Manager	Sr. Technical Lead	Technical Lead	Project Engineer	Design Engineer II	Design Engineer I	Sr. Technician	Survey Division Manager	Survey Manager II	Project Surveyor II	Survey Specialist II	Survey Technician II	*2-Person Crew (OE 12)	Sr. Graphic Designer	Sr. Project Accountant	Sr. Project Coordinator								
	\$350	\$315	\$283	\$202	\$172	\$140	\$172	\$330	\$291	\$218	\$187	\$146	\$400	\$193	\$186	\$180								
1.0 PROJECT MANAGEMENT/COORDINATION																								
1.1 Meetings		2	16		24	10												52	\$12,308		\$6,320			\$18,628
1.2 City & Community Meetings/Workshops/Presentation Exhibits		2	12			12									40			66	\$14,264		\$1,480			\$15,744
1.3 Project Management/Coordination/Progress Reports		2	24												12	24		62	\$14,812				-	\$14,812
Subtotal Phase 1	6	52	0	24	22	0	0	0	0	0	0	0	0	40	12	24	180	\$41,384	\$7,800	\$0	\$0	\$0	\$49,184	
2.0 RESEARCH/REVIEW																								
2.1 Data Collection				4	8	12												24	\$3,864					\$3,864
2.2 Site Visits			2		2	2												6	\$1,378					\$1,378
2.3 Utility Coordination			2		4	8	40											54	\$8,414		-		-	\$8,414
2.4 ROW & Parcel Mapping								1	2	8		16	8					35	\$8,192		-		-	\$8,192
Subtotal Phase 2	0	4	0	10	18	52	0	1	2	8	0	16	8	0	0	0	119	\$21,848	\$0	\$0	\$0	\$0	\$21,848	
3.0 AERIAL TOPOGRAPHIC MAPPING																								
3.1 Survey Control & Aerial Mapping				2		4			2	2	8	8						42	\$12,200					\$12,200
Subtotal Phase 3	0	2	0	0	4	0	0	2	2	8	8	0	16	0	0	0	42	\$12,200	\$0	\$0	\$0	\$0	\$12,200	
4.0 TRAFFIC ANALYSIS																								
4.1 Draft and Final Traffic Analysis Memo				2		4												6	\$1,318	\$16,640				\$17,958
Subtotal Phase 4	0	2	0	0	4	0	0	0	0	0	0	0	0	0	0	0	6	\$1,318	\$16,640	\$0	\$0	\$0	\$17,958	
5.0 PRELIMINARY DESIGN PLANS																								
5.1 Preliminary Geometric Alternatives		4	8		16	60	20											108	\$20,272					\$20,272
5.2 Preliminary Geometric Concept Plans		4	6		16	24	60	20										130	\$22,490					\$22,490
Subtotal Phase 5	8	14	0	32	84	80	20	0	0	0	0	0	0	0	0	0	238	\$42,762	\$0	\$0	\$0	\$0	\$42,762	
6.0 PREPARE PROJECT REPORT																								
6.1 Draft Project Report			12		50	20	20											102	\$20,120					\$20,120
6.2 Final Project Report			8		20	20	20											68	\$12,800					\$12,800
6.3 Cost Estimates			2		8	24	30											64	\$10,574		\$6,020			\$16,594
Subtotal Phase 6	0	22	0	78	64	70	0	0	0	0	0	0	0	0	0	0	234	\$43,494	\$0	\$6,020	\$0	\$0	\$49,514	
7.0 PRELIMINARY WATER QUALITY MANAGEMENT PLAN (WQMP)																								
7.1 Draft Preliminary WQMP			2		8	24	20											54	\$9,174					\$9,174
7.2 Final Preliminary WQMP			2		4	16	24											46	\$7,550					\$7,550
Subtotal Phase 7	0	4	0	12	40	44	0	0	0	0	0	0	0	0	0	0	100	\$16,724	\$0	\$0	\$0	\$0	\$16,724	
8.0 ENVIRONMENTAL DOCUMENTS (CEQA COMPLIANCE)																								
8.1 Environmental Phase I - ISA			4															4	\$1,260				\$17,710	\$18,970
8.2 Air Quality/GHG/Energy																		0	\$0	\$8,510				\$8,510
8.3 Biological Resources																		0	\$0	\$5,530				\$5,530
8.4 Cultural Resources																		0	\$0	\$5,310				\$5,310
8.5 AB 52 Consultation Support																		0	\$0	\$2,100				\$2,100
8.6 Noise and Vibration																		0	\$0	\$9,950				\$9,950
8.7 Paleontological Resources																		0	\$0	\$5,060				\$5,060
8.8 Draft CEQA IS/MND			2		4													6	\$1,438	\$41,178	-	-		\$42,616
8.9 Publicly Circulate Draft CEQA IS/MND					2													2	\$404	\$2,720	-	-		\$3,124
8.10 Response to Comments			2		2													4	\$1,034	\$7,820	-	-		\$8,854
8.11 Final CEQA IS/MND			1		2													3	\$719	\$10,542	-	-		\$11,261
8.12 File Notice of Determination					2													2	\$404	\$1,640	-	-		\$2,044
Subtotal Phase 8	0	9	0	12	0	0	0	0	0	0	0	0	0	0	0	0	21	\$5,259	\$100,360	\$0	\$17,710	\$0	\$123,329	
TOTAL HOURS	14	109	0	168	236	246	20	3	4	16	8	16	24	40	12	24	940							
OTHER DIRECT COSTS																			\$5,500	\$1,985	\$0	\$0	\$0	\$7,485
TOTAL COST	\$4,900	\$34,335	\$0	\$33,936	\$40,592	\$34,440	\$3,440	\$990	\$1,164	\$3,488	\$1,496	\$2,336	\$9,600	\$7,720	\$2,232	\$4,320		\$190,489	\$126,785	\$6,020	\$17,710	\$0	\$341,004	
OPTIONAL TASKS																								
O-1 VMT Analysis			4															4	\$1,260	\$8,580				\$9,840