

**SUBMITTAL TO THE BOARD OF SUPERVISORS
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**



**ITEM: 3.56
(ID # 22810)**

MEETING DATE:
Tuesday, January 09, 2024

FROM : TLMA-TRANSPORTATION:

SUBJECT: TRANSPORTATION AND LAND MANAGEMENT/TRANSPORTATION: Approval of the Consulting Services Agreement between the County of Riverside and T.Y. Lin International for the Cajalco Road Widening Project-Segment 1 from Wood Road to Seaton Avenue. District 1. [\$10,399,008 Total Cost - Local Funds 100%]

RECOMMENDED MOTION: That the Board of Supervisors:

1. Approve the Consulting Services Agreement between the County of Riverside (County) and T.Y. Lin International for the preparation of Plans, Specifications and Estimate (PS&E), and to provide bid and construction support for the Cajalco Road Widening Project – Segment 1 from Wood Road to Seaton Avenue; and
2. Authorize the Chairman of the Board to execute the same.

ACTION:Policy


Patricia Romo, Director of Transportation 12/21/2023

MINUTES OF THE BOARD OF SUPERVISORS

On motion of Supervisor Jeffries, seconded by Supervisor Spiegel and duly carried by unanimous vote, IT WAS ORDERED that the above matter is approved as recommended.

Ayes: Jeffries, Spiegel, Washington, Perez and Gutierrez
Nays: None
Absent: None
Date: January 9, 2024
xc: Trans.

Kimberly A. Rector
Clerk of the Board

By: 
Deputy

**SUBMITTAL TO THE BOARD OF SUPERVISORS COUNTY OF RIVERSIDE,
STATE OF CALIFORNIA**

FINANCIAL DATA	Current Fiscal Year:	Next Fiscal Year:	Total Cost:	Ongoing Cost
COST	\$ 2,500,000	\$ 5,000,000	\$ 10,399,008	\$ 0
NET COUNTY COST	\$ 0	\$ 0	\$ 0	\$ 0
SOURCE OF FUNDS: TUMF Regional Arterial (75%) and Gas Tax/HUTA (25%). There are no General Funds used in this project.			Budget Adjustment: No	
			For Fiscal Year: 23/24 – 30/31	

C.E.O. RECOMMENDATION: Approve

BACKGROUND:

The County of Riverside's population has steadily increased over the last decade and the trend is expected to continue in the coming years. Many regional roadway projects are being designed now to ease congestion and ensure future mobility. Widening and safety improvements to Cajalco Road between I-15 and I-215 have been identified to improve east-west mobility within the County while benefitting the communities along the corridor. Improvements to Cajalco Road are essential to reduce congestion and maintain and enhance the quality of life in western Riverside County. The County is currently working on the environmental clearance phase of the overall Cajalco Road Improvement Project between I-15 and I-215. The Environmental Impact Report/Environmental Impact Statement (EIR/EIS) was circulated for public input and a hearing held in January 2022. Environmental clearance is anticipated in fall 2024.

Cajalco Road between Wood Road and Seaton Avenue is the first segment of the greater Cajalco Road improvements proposed between I-15 and I-215 to begin final design. Segment 1 improvements will include widening Cajalco Road from 2 lanes to 4 lanes between Wood Road and Seaton Avenue, constructing sidewalk, pedestrian and bicycle facilities, driveway approaches, turn pockets, grading, and retaining walls. Bridge structures and drainage facilities will also be constructed.

A list of Pre-Qualified Consultants was established by a March 2020 Request for Qualifications for Engineering and Environmental Services for Bridge, Structures, Interchange and Roadway Projects in compliance with the Caltrans Local Assistance Procedures Manual. On July 19, 2023, the County interviewed the top seven consultants through a Mini-Request for Proposals to provide the necessary services for the project from the established pre-qualified list. T.Y. Lin International scored the highest and was selected to provide engineering services to complete the following phases of the project: Phase II – PS&E, Phase III - Bid Support, and Phase IV - Construction Support. The detailed scope, proposed schedule, and negotiated fee for performing the consultant services for the project are provided in Attachments "A", "B", and "C" respectively of the subject agreement.

Cajalco Road Widening Project—Segment 1
Project Number: CO-0551.1

**SUBMITTAL TO THE BOARD OF SUPERVISORS COUNTY OF RIVERSIDE,
STATE OF CALIFORNIA**

Impact on Citizens and Businesses

Regional transportation facilities are essential to public health, safety, and welfare. Cajalco Road is a significant east-west regional arterial in the County. The proposed Segment 1 improvements will contribute to the greater Cajalco Road project and will improve driver comfort and safety. The project will provide several enhancements for the local community including adding lanes, roadway medians, shoulders, pedestrian and bicycle facilities, signalized intersections, bus turn-outs, turn pockets, and drainage improvements.

Environmental Findings

The Cajalco Road Widening and Safety Enhancement Project is currently completing the environmental clearance phase where the Environmental Impact Report, under CEQA, and Environmental Impact Statement, under NEPA, collectively known as the EIR/EIS is targeting approval in late 2024. Approval of the Consulting Services Agreement does not affect the environment, nor does it limit any of the ongoing analysis or foreclose any alternatives or mitigation as part of the overall Cajalco Road Widening and Safety Enhancement Project.

SUPPLEMENTAL:

Additional Fiscal Information

The consultant's negotiated proposed fee for Phase II, Phase III, and Phase IV is \$9,453,643.86. This agreement also includes a 10% contingency of \$945,364.39 which is to be used only with prior written approval from the county's contract administrator. The proposed fee for this contract is comparable to work performed on similar projects.

In May 2023, RCTC recommended the Project receive \$15,000,000 in Western Riverside Council of Governments (WRCOG) Transportation Uniform Mitigation Fee (TUMF) Regional Arterial Funds from a call-for-projects held in March 2023. In June 2023, The RCTC Commission approved funding the Project. The County will provide \$5,000,000 of local match funding toward the project. The \$20,000,000 funding agreement between RCTC and County was approved by the Board of Supervisors on September 12, 2023, Item 3.36.

ATTACHMENTS:

Vicinity Map
Consulting Services Agreement



Jason Farin, Principal Management Analyst 1/3/2024



Aaron Gettis, Deputy County Counsel 12/22/2023

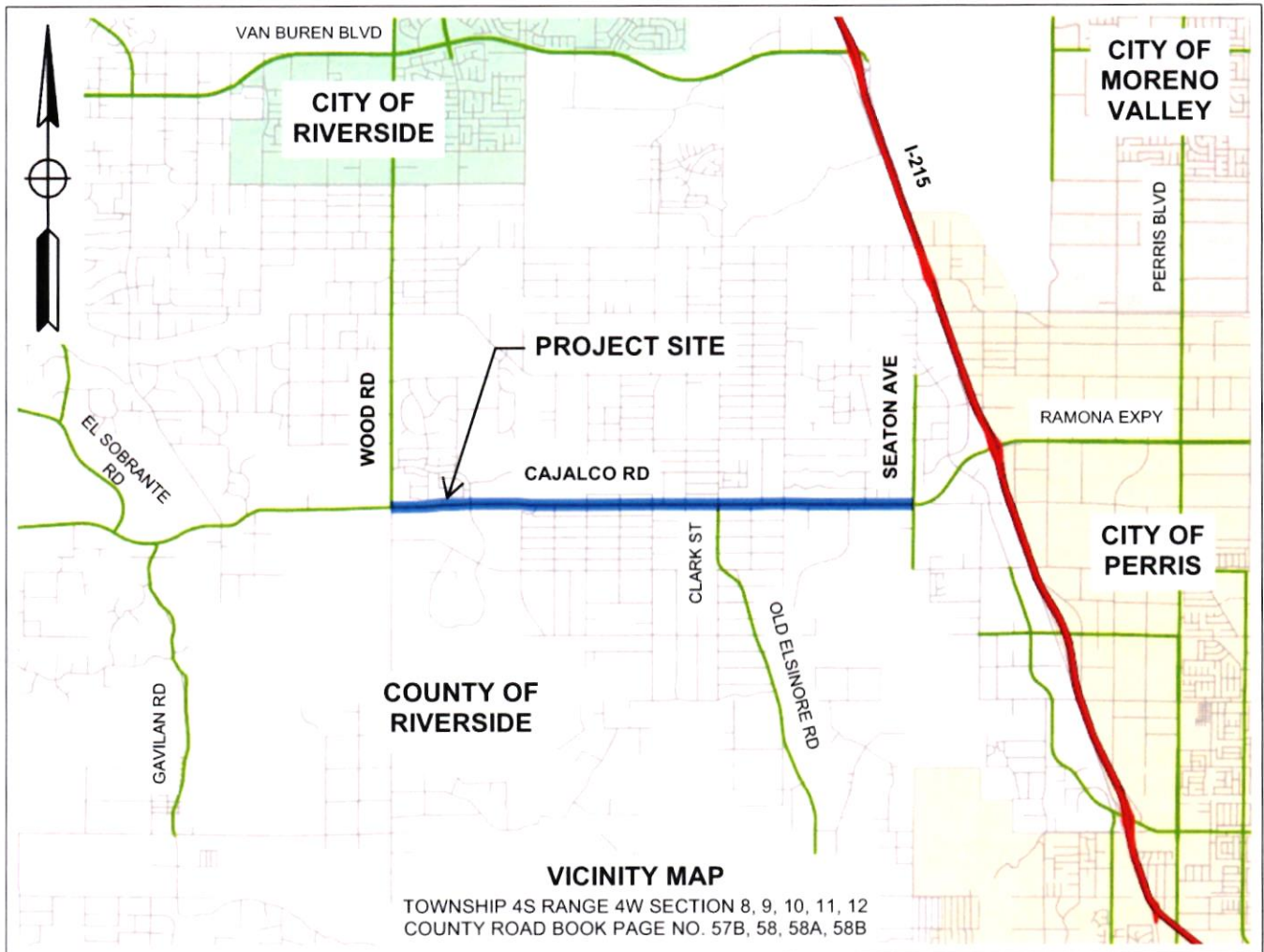
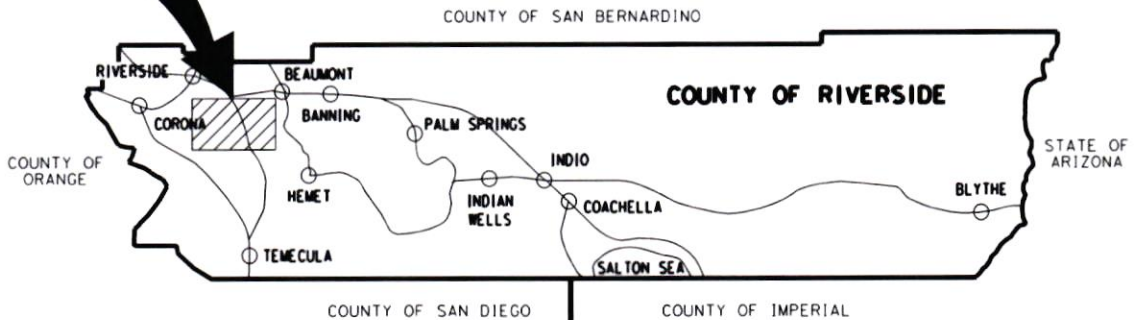
COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT

CAJALCO RD

WIDENING
WOOD RD TO SEATON AVE
COMMUNITY OF MEAD VALLEY

WO No. CO-0551.1

PROJECT
LOCATION



Contract No.: 23-12-001
Termination Date: 9/30/2030
Amount Authorized: \$10,399,008.25
Federal Funding: [No]
State Funding: [No]

CONSULTING SERVICES AGREEMENT

for

**CAJALCO ROAD WIDENING SEGMENT 1 – WOOD ROAD TO
SEATON AVENUE (PROJECT)**

between

County of Riverside • Transportation Department

and

T. Y. LIN INTERNATIONAL



JAN 9 2024

3.56

Table of Contents

ARTICLE I INTRODUCTION	1
ARTICLE II CONSULTANT'S REPORTS OR MEETINGS	3
ARTICLE III STATEMENT OF WORK.....	3
ARTICLE IV PERFORMANCE PERIOD	3
ARTICLE V ALLOWABLE COSTS AND PAYMENTS.....	4
ARTICLE VI TERMINATION	5
ARTICLE VII COST PRINCIPLES AND ADMINISTRATIVE REQUIREMENTS	6
ARTICLE VIII RETENTION OF RECORDS/AUDIT.....	6
ARTICLE IX AUDIT REVIEW PROCEDURES.....	7
ARTICLE X SUBCONTRACTING	9
ARTICLE XI EQUIPMENT PURCHASE AND OTHER CAPITAL EXPENDITURES.....	9
ARTICLE XII STATE PREVAILING WAGE RATES	10
ARTICLE XIII CONFLICT OF INTEREST	15
ARTICLE XIV REBATES, KICKBACKS OR OTHER UNLAWFUL CONSIDERATION.....	16
ARTICLE XV PROHIBITION OF EXPENDING COUNTY STATE OR FEDERAL FUNDS FOR LOBBYING	16
ARTICLE XVI NON-DISCRIMINATION CLAUSE AND STATEMENT OF COMPLIANCE	17
ARTICLE XVII DEBARMENT AND SUSPENSION CERTIFICATION	18
ARTICLE XXVIII DISADVANTAGED BUSINESS ENTERPRISES (DBE) PARTICIPATION	19
ARTICLE XIX INDEMNIFICATION AND INSURANCE	24
ARTICLE XX FUNDING REQUIREMENTS	29
ARTICLE XXI CHANGE IN TERMS	29
ARTICLE XXII CONTINGENT FEE	29
ARTICLE XXIII DISPUTES.....	30
ARTICLE XXIV INSPECTION OF WORK	30
ARTICLE XXV SAFETY	30
ARTICLE XXVI OWNERSHIP OF DATA.....	31
ARTICLE XXVII CLAIMS FILED BY COUNTY'S CONSTRUCTION CONTRACTOR.....	32
ARTICLE XXVIII CONFIDENTIALITY OF DATA.....	32
ARTICLE XXIX NATIONAL LABOR RELATIONS BOARD CERTIFICATION	33
ARTICLE XXX LEGAL COMPLIANCE.....	33
ARTICLE XXXI EVALUATION OF CONSULTANT	33
ARTICLE XXXII RETENTION OF FUNDS	33
ARTICLE XXXIII TITLE VI ASSURANCES	34
ARTICLE XXXIV NOTIFICATION.....	34
ARTICLE XXXV CONTRACT	34
ARTICLE XXXVI SIGNATURES.....	36
ATTACHMENTS <i>[In the event that the terms in any of the Attachments conflicts with the terms as provided in the Agreement, the terms of the Agreement shall prevail.]</i>	
Scope of Services	A1
Schedule of Services	B1
Compensation Plan	C1
Title VI Assurances.....	D1

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ARTICLE I INTRODUCTION

A. This Consulting Services Agreement (hereinafter referred to as "Agreement") is entered into this _____ day of _____, 2023, by and between the COUNTY OF RIVERSIDE, a political subdivision of the State of California, (hereinafter referred to as "COUNTY") and T. Y. LIN INTERNATIONAL, a California corporation, (hereinafter referred to as "CONSULTANT").

B. Coordination of CONSULTANT and COUNTY activities shall be accomplished through a CONSULTANT Project Manager and a COUNTY Contract Administrator.

The CONSULTANT Project Manager shall be:

Karen Chapman, PE

Located at:

20 Pacifica, Suite 350, Irvine, CA 92618

The COUNTY Contract Administrator shall be:

John Ashlock, PE

Located at:

4080 Lemon St, 8th Floor, Riverside, CA 92502

C. CONSULTANT shall perform:

The covenants set forth in Article III entitled Statement of Work.

In accordance with the time frames set forth in Article IV entitled Performance Period.

For the fees set forth in Article V entitled Allowable Costs and Payments.

D. CONSULTANT in the performance of this Agreement, shall act in an independent capacity. It is understood and agreed that CONSULTANT (including CONSULTANT's employees) is an independent contractor and that no relationship of employer-employee exists between the parties hereto. CONSULTANT's assigned personnel shall not be entitled to any benefits payable to employees of COUNTY.

E. COUNTY is not required to make any deductions or withholdings from the compensation payable to CONSULTANT under the provisions of the Agreement, and is not required to issue W-2 Forms for income and employment tax purposes for any of CONSULTANT's assigned personnel. CONSULTANT, in the performance of its obligations hereunder, is only subject to the control or direction of the COUNTY as to the designation of tasks to be performed and the results to be accomplished.

1 F. Any third party person(s) employed by CONSULTANT shall be entirely and exclusively under the direction,
2 supervision, and control of CONSULTANT. CONSULTANT hereby indemnifies and holds COUNTY harmless
3 from any and all claims that may be made against COUNTY based upon any contention by any third party that
4 an employer-employee relationship exists by reason of this Agreement.

5 G. Without the written consent of COUNTY, this Agreement is not assignable or transferable by CONSULTANT
6 either in whole or in part. Except as expressly authorized herein, CONSULTANT shall not subcontract any work,
7 without the prior written approval of the COUNTY.

8 H. CONSULTANT shall be as fully responsible to the COUNTY for the acts and omissions of its contractors and
9 subcontractors or subconsultants, and of persons either directly or indirectly employed by them, in the same
10 manner as persons directly employed by CONSULTANT.

11 I. No alteration or variation of the terms of this Agreement shall be valid, unless made in writing and signed by
12 the authorized representatives of both parties; and no oral understanding or agreement not incorporated herein,
13 shall be binding on any of the parties hereto.

14 J. The consideration to be paid to CONSULTANT as provided herein, shall be in compensation for all of
15 CONSULTANT's expenses incurred in the performance hereof, including travel and per diem, unless otherwise
16 expressly so provided.

17 K. COUNTY is designated as the lead agency for PROJECT and is working cooperatively with other agencies in
18 the effort to complete the PROJECT.

19 L. Other public agencies that may be involved with the PROJECT including, but not limited to cooperative, funding,
20 reviewing, regulatory or operating agencies are listed below and will hereinafter be collectively referred to as
21 the "AGENCIES".

22 CalTrans

23 Metropolitan Water District

24 Riverside County Transportation Commission

25 Native American Tribes

26 Riverside County Flood Control and Water Conservation District

27 County of Riverside Departments

28 Utility Companies

1 **ARTICLE II CONSULTANT'S REPORTS OR MEETINGS**

2 A. To ensure understanding and performance of the Agreement objectives, meetings between COUNTY,
3 AGENCIES, and CONSULTANT shall be held as often as deemed necessary (typically at least monthly). All
4 work objectives, CONSULTANT's work schedule, the terms of the Agreement and any other related issues will
5 be discussed and/or resolved. CONSULTANT shall keep minutes of meetings and distribute copies of minutes
6 as appropriate. Progress reporting shall conform with the contract administration requirements of the
7 COUNTY's Consulting Services Manual including providing updated copies of the following documents at each
8 PROJECT coordination meeting:

- 9 • Meeting Agendas
- 10 • Meeting Sign-in Sheets
- 11 • Meeting Minutes (Prior Meeting)
- 12 • Action Items Tracking List
- 13 • Deliverables Tracking List
- 14 • Schedule Summary

15 B. CONSULTANT shall submit progress reports at least once a month. The report should be sufficiently detailed
16 for the COUNTY Contract Administrator to determine, if CONSULTANT is performing to expectations, or is on
17 schedule; to provide communication of interim findings, and to sufficiently address any difficulties or special
18 problems encountered, so remedies can be developed.

19 C. CONSULTANT Project Manager shall meet with COUNTY Contract Administrator, as needed, to discuss
20 progress on the Agreement.

21 **ARTICLE III STATEMENT OF WORK**

22 CONSULTANT shall furnish all technical and professional services including labor, material, equipment,
23 transportation, supervision, and expertise to fully and adequately perform and complete the covenants set forth in
24 Attachment A, Scope of Services, which is attached hereto and incorporated herein by reference.

25 **ARTICLE IV PERFORMANCE PERIOD**

26 A. This Agreement shall go into effect upon the [execution of this Agreement by both parties](#), and CONSULTANT
27 shall commence work after written notification to proceed by COUNTY Contract Administrator. The Agreement
28 shall end on [September 30, 2030](#), unless extended by a written amendment signed by the authorized
29 representatives of both parties.

1 B. CONSULTANT is advised that any recommendation for Agreement award is not binding on COUNTY until the
2 Agreement is fully executed and approved by COUNTY.

3 C. Services provided under this Agreement may be performed in separate Milestones or Phases. The sequencing
4 and scheduling of these Milestones or Phases is set forth in Attachment B, Schedule of Services, which is
5 attached hereto and incorporated herein by reference. Each Milestone or Phase shall be contingent upon a
6 written notification to proceed by COUNTY Contract Administrator.

7 **ARTICLE V ALLOWABLE COSTS AND PAYMENTS**

8 A. The method of payment for this Agreement will be based on actual cost plus a fixed fee. COUNTY will reimburse
9 CONSULTANT for actual costs (including labor costs, employee benefits, travel, equipment rental costs,
10 overhead and other direct costs) incurred by CONSULTANT in performance of the work. CONSULTANT will
11 not be reimbursed for actual costs that exceed the estimated wage rates, employee benefits, travel, equipment
12 rental, overhead, and other estimated costs set forth in Article CVI, Cost Proposal, of Attachment C,
13 Compensation Plan, which is attached hereto and incorporated herein by reference, unless additional
14 reimbursement is provided for by a written amendment signed by the authorized representatives of both parties.
15 In no event, will CONSULTANT be reimbursed for overhead costs at a rate that exceeds COUNTY's approved
16 overhead rate set forth in the Cost Proposal. In the event, that COUNTY determines that a change to the work
17 from that specified in the Cost Proposal and Agreement is required, the Agreement time or actual costs
18 reimbursable by COUNTY shall be adjusted by a written amendment signed by the authorized representatives
19 of both parties to accommodate the changed work. The maximum total cost as specified in paragraph H of this
20 Article shall not be exceeded, unless authorized by a written amendment signed by the authorized
21 representatives of both parties.

22 B. In addition to the allowable incurred costs, COUNTY will pay CONSULTANT a fixed fee of \$446,028.53. The
23 fixed fee is nonadjustable for the term of the Agreement, except in the event of a significant change in the scope
24 of work and such adjustment is made by a written amendment signed by the authorized representatives of both
25 parties.

26 C. Reimbursement for transportation and subsistence costs shall not exceed the rates specified in the approved
27 Cost Proposal.

28 D. When milestone or phase cost estimates are included in the approved Cost Proposal, CONSULTANT shall
29 obtain prior written approval for a revised milestone or phase cost estimate from the COUNTY Contract

1 Administrator before exceeding such cost estimate.

2 E. Progress payments will be made monthly in arrears based on services provided and allowable incurred costs.

3 A pro rata portion of CONSULTANT's fixed fee will be included in the monthly progress payments. If
4 CONSULTANT fails to submit the required deliverable items according to the schedule set forth in this
5 Agreement, COUNTY shall have the right to delay payment or terminate this Agreement.

6 F. No payment will be made prior to approval of any work, nor for any work performed prior to approval of this
7 Agreement.

8 G. CONSULTANT will be reimbursed, as promptly as fiscal procedures will permit, upon receipt by COUNTY
9 Contract Administrator of itemized invoices. Invoices shall be submitted no later than thirty (30) calendar days
10 after the performance of work for which CONSULTANT is billing. Invoices shall detail the work performed on
11 each milestone or phase and each project as applicable. Invoices shall follow the format stipulated for the
12 approved Cost Proposal using the Project-Specific & Multi-Phase Contract Invoice Templates provided in the
13 COUNTY Consulting Services Manual and shall reference this Agreement number and PROJECT title. Final
14 invoice must contain the final cost and all credits due COUNTY including any equipment purchased under the
15 provisions of Article XI Equipment Purchase of this Agreement. The final invoice shall be submitted within sixty
16 (60) calendar days after completion of CONSULTANT's work. **Final invoices not submitted within sixty (60)**
17 **calendar days after completion of CONSULTANT's work will not be paid.** Invoices shall be mailed to
18 COUNTY Contract Administrator at the address provided in Article I, paragraph B.

19 H. The total amount payable by COUNTY including the fixed fee and 10% contingency shall not exceed
20 \$10,399,008.25. The 10% contingency will be held in reserve and administered as described in Attachment C,
21 Article CVI.

22 I. Salary increases will be reimbursable if the new salary is within the salary range identified in the Compensation
23 Plan and is approved by COUNTY Contract Administrator.

24 J. For personnel subject to prevailing wage rates as described in the California Labor Code, all salary increases,
25 which are the direct result of changes in the prevailing wage rates are reimbursable.

26 K. The services included under the terms of this Agreement are funded in whole or in part as noted below:

27 Federal funds: are included are not included

28 State funds: are included are not included

29 **ARTICLE VI TERMINATION**

- 1 A. This Agreement may be terminated by COUNTY, provided that COUNTY gives not less than thirty (30) calendar
2 days' written notice (delivered by certified mail, return receipt requested) to CONSULTANT of COUNTY's
3 termination. Upon termination, COUNTY may proceed with the work in any manner deemed proper by
4 COUNTY. COUNTY shall be entitled to all work, including but not limited to, reports, investigations, appraisals,
5 inventories, studies, analyses, drawings and date estimates performed to that date, whether complete or not.
- 6 B. COUNTY may temporarily suspend this Agreement, at no additional cost to COUNTY, provided that
7 CONSULTANT is given written notice (delivered by certified mail, return receipt requested) of temporary
8 suspension. If COUNTY gives such notice of temporary suspension, CONSULTANT shall immediately suspend
9 its activities under this Agreement. A temporary suspension may be issued concurrent with the notice of
10 termination.
- 11 C. Notwithstanding any provisions of this Agreement, CONSULTANT shall not be relieved of liability to COUNTY
12 for damages sustained by COUNTY by virtue of any breach of this Agreement by CONSULTANT, and COUNTY
13 may withhold any payments due to CONSULTANT until such time as the exact amount of damages, if any, due
14 to COUNTY from CONSULTANT is determined.
- 15 D. In the event of termination, COUNTY shall pay CONSULTANT the sum due to CONSULTANT under this
16 Agreement prior to termination, unless the cost of completion to COUNTY exceeds the funds remaining in the
17 Agreement. In which case the overage shall be deducted from any sum due CONSULTANT under this
18 Agreement and the balance, if any, shall be paid to CONSULTANT upon demand.

19 **ARTICLE VII COST PRINCIPLES AND ADMINISTRATIVE REQUIREMENTS**

- 20 A. The CONSULTANT agrees that 48 CFR 31, Contract Cost Principles and Procedures, shall be used to
21 determine the allowability of individual terms of cost.
- 22 B. The CONSULTANT also agrees to comply with federal procedures in accordance with 2 CFR 200, Uniform
23 Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards.
- 24 C. Any costs for which payment has been made to CONSULTANT that are determined by subsequent audit to be
25 unallowable under 48 CFR 31 or 2 CFR 200 are subject to repayment by CONSULTANT to COUNTY.

26 **ARTICLE VIII RETENTION OF RECORDS/AUDIT**

27 The CONSULTANT, subconsultants, and COUNTY shall maintain and make available for inspection all books,
28 documents, papers, accounting records, independent CPA Audited Indirect Cost Rate workpapers, and other
29 evidence pertaining to the performance of the Agreement including, but not limited to, the costs of administering the

1 Agreement. All parties, including the CONSULTANT's Independent CPA, shall make such workpapers and
2 materials available at their respective offices at all reasonable times during the Agreement period and for three (3)
3 years from the date of final payment under the Agreement and records for real property and equipment acquired
4 with federal funds must be retained for three (3) years after final disposition. COUNTY, Caltrans Auditor, FHWA,
5 or any duly authorized representative of the federal government having jurisdiction under federal laws or regulations
6 (including the basis of federal funding in whole or in part) shall have access to any books, records, and documents
7 of the CONSULTANT, subconsultants, and the CONSULTANT's Independent CPA, that are pertinent to the
8 Agreement for audits, examinations, workpaper review, excerpts, and transactions, and copies thereof shall be
9 furnished if requested without limitation.

10 **ARTICLE IX AUDIT REVIEW PROCEDURES**

- 11 A. Any dispute concerning a question of fact arising under an interim or post audit of this Agreement that is not
12 disposed of by agreement, shall be reviewed by COUNTY's Chief Financial Officer.
- 13 B. Not later than thirty (30) days after issuance of the final audit report, CONSULTANT may request a review by
14 COUNTY's Chief Financial Officer of unresolved audit issues. The request for review will be submitted in
15 writing.
- 16 C. Neither the pendency of a dispute nor its consideration by COUNTY will excuse CONSULTANT from full and
17 timely performance, in accordance with the terms of this Agreement.
- 18 D. CONSULTANT and subconsultant agreements, including cost proposals and Indirect Cost Rates (ICR), may
19 be subject to audits or reviews such as, but not limited to, an agreement audit, an incurred cost audit, an ICR
20 Audit, or a CPA ICR audit work paper review. If selected for audit or review, the Agreement, cost proposal and
21 ICR and related work papers, if applicable, will be reviewed to verify compliance with 48 CFR 31 and other
22 related laws and regulations. In the instances of a CPA ICR audit work paper review it is CONSULTANT's
23 responsibility to ensure federal, state, or local government officials are allowed full access to the CPA's work
24 papers including making copies as necessary. The Agreement, cost proposal, and ICR shall be adjusted by
25 CONSULTANT and approved by COUNTY Contract Administrator to conform to the audit or review
26 recommendations. CONSULTANT agrees that individual terms of costs identified in the audit report shall be
27 incorporated into the Agreement by this reference if directed by COUNTY at its sole discretion. Refusal by
28 CONSULTANT to incorporate audit or review recommendations, or to ensure that the federal, state or local
29 governments have access to CPA work papers, will be considered a breach of Agreement terms and cause for

1 termination of this Agreement and disallowance of prior reimbursed costs.

2 E. If state or federal funds are used for this Agreement, CONSULTANT's Cost Proposal may be subject to a CPA
3 ICR Audit Work Paper Review and/or audit by the Independent Office of Audits and Investigations (IOAI). IOAI,
4 at its sole discretion, may review and/or audit and approve the CPA ICR documentation. The Cost Proposal
5 shall be adjusted by the CONSULTANT and approved by the COUNTY Contract Administrator to conform to
6 the Work Paper Review recommendations included in the management letter or audit recommendations
7 included in the audit report. Refusal by the CONSULTANT to incorporate the Work Paper Review
8 recommendations included in the management letter or audit recommendations included in the audit report will
9 be considered a breach of the Agreement terms and cause for termination of the Agreement and disallowance
10 of prior reimbursed costs.

11 1. During IOAI's review of the ICR audit work papers created by the CONSULTANT's independent CPA, IOAI
12 will work with the CPA and/or CONSULTANT toward a resolution of issues that arise during the review.
13 Each party agrees to use its best efforts to resolve any audit disputes in a timely manner. If IOAI identifies
14 significant issues during the review and is unable to issue a cognizant approval letter, COUNTY will
15 reimburse the CONSULTANT at an accepted ICR until a FAR (Federal Acquisition Regulation) compliant
16 ICR {e.g. 48 CFR, Part 31; GAGAS (Generally Accepted Auditing Standards); CAS (Cost Accounting
17 Standards), if applicable; in accordance with procedures and guidelines of the American Association of
18 State Highways and Transportation Officials (AASHTO) Audit Guide; and other applicable procedures and
19 guidelines} is received and approved by IOAI. Accepted rates will be as follows:

- 20 a. If the proposed rate is less than one hundred fifty percent (150%) - the accepted rate reimbursed
21 will be ninety percent (90%) of the proposed rate.
- 22 b. If the proposed rate is between one hundred fifty percent (150%) and two hundred percent (200%)
23 - the accepted rate will be eighty-five percent (85%) of the proposed rate.
- 24 c. If the proposed rate is greater than two hundred percent (200%) - the accepted rate will be seventy-
25 five percent (75%) of the proposed rate.

26 2. If IOAI is unable to issue a cognizant letter per Article IX.E.1. above, IOAI may require CONSULTANT to
27 submit a revised independent CPA-audited ICR and audit report within three (3) months of the effective
28 date of the management letter. IOAI will then have up to six (6) months to review the CONSULTANT's
29 and/or the independent CPA's revisions.

- 1 3. If the CONSULTANT fails to comply with the provisions of this Article IX.E, or if IOAI is still unable to issue
2 a cognizant approval letter after the revised independent CPA audited ICR is submitted, overhead cost
3 reimbursement will be limited to the accepted ICR that was established upon initial rejection of the ICR and
4 set forth in Article IX.E.1. above for all rendered services. In this event, this accepted ICR will become the
5 actual and final ICR for reimbursement purposes under this Agreement.
- 6 4. CONSULTANT may submit to COUNTY final invoice only when all of the following items have occurred:
7 (1) IOAI accepts or rejects the original or revised independent CPA audited ICR; (2) all work under this
8 Agreement has been completed to the satisfaction of COUNTY; and, (3) IOAI has issued its final ICR review
9 letter. The CONSULTANT MUST SUBMIT ITS FINAL INVOICE TO COUNTY no later than sixty (60) days
10 after occurrence of the last of these items. The accepted ICR will apply to this Agreement and all other
11 agreements executed between COUNTY and the CONSULTANT, either as a prime or subconsultant, with
12 the same fiscal period ICR.

13 **ARTICLE X SUBCONTRACTING**

- 14 A. Nothing contained in this Agreement or otherwise, shall create any contractual relation between COUNTY and
15 any subconsultant(s), and no subagreement shall relieve CONSULTANT of its responsibilities and obligations
16 hereunder. CONSULTANT agrees to be as fully responsible to COUNTY for the acts and omissions of its
17 subconsultant(s) and of persons either directly or indirectly employed by any of them as it is for the acts and
18 omissions of persons directly employed by CONSULTANT. CONSULTANT's obligation to pay its
19 subconsultant(s) is an independent obligation from COUNTY's obligation to make payments to the
20 CONSULTANT.
- 21 B. CONSULTANT shall perform the work contemplated with resources available within its own organization and
22 no portion of the work shall be subcontracted without written authorization by COUNTY Contract Administrator,
23 except that which is expressly identified in the CONSULTANT's Cost Proposal.
- 24 C. Any subagreement entered into as a result of this Agreement, shall contain all the provisions stipulated in this
25 entire Agreement to be applicable to subconsultants unless otherwise noted.
- 26 D. CONSULTANT shall pay its subconsultants within ten (10) calendar days from receipt of each payment made
27 to CONSULTANT by COUNTY.
- 28 E. Any substitution of subconsultants must be approved in writing by COUNTY Contract Administrator in advance
29 of assigning work to a substitute subconsultant.

ARTICLE XI EQUIPMENT PURCHASE AND OTHER CAPITAL EXPENDITURES

A. Prior authorization in writing by COUNTY Contract Administrator shall be required before CONSULTANT enters into any unbudgeted purchase order, or subcontract exceeding five thousand dollars (\$5,000) for supplies, equipment, or CONSULTANT services. CONSULTANT shall provide an evaluation of the necessity or desirability of incurring such costs.

B. For purchase of any item, service or consulting work not covered in CONSULTANT's approved Cost Proposal and exceeding five thousand dollars (\$5,000), with prior authorization by COUNTY Contract Administrator, three competitive quotations must be submitted with the request, or the absence of quotations must be adequately justified.

C. Any equipment purchased with funds provided under the terms of this Agreement is subject to the following:

1. CONSULTANT shall maintain an inventory of all nonexpendable property. Nonexpendable property is defined as having a useful life of at least two years and an acquisition cost of five thousand dollars (\$5,000) or more. If the purchased equipment needs replacement and is sold or traded in, COUNTY shall receive a proper refund or credit at the conclusion of the Agreement, or if the Agreement is terminated, CONSULTANT may either keep the equipment and credit COUNTY in an amount equal to its fair market value, or sell such equipment at the best price obtainable at a public or private sale, in accordance with established COUNTY procedures; and credit COUNTY in an amount equal to the sales price. If CONSULTANT elects to keep the equipment, fair market value shall be determined at CONSULTANT's expense, on the basis of a competent independent appraisal of such equipment. Appraisals shall be obtained from an appraiser mutually agreeable to by COUNTY and CONSULTANT, if it is determined to sell the equipment, the terms and conditions of such sale must be approved in advance by COUNTY.

2. Regulation 2 CFR 200 requires a credit to federal funds when participating equipment with a fair market value greater than five thousand dollars (\$5,000) is credited to the PROJECT.

ARTICLE XII STATE PREVAILING WAGE RATES

A. No CONSULTANT or subconsultant may be awarded an agreement containing public work elements unless registered with the Department of Industrial Relations (DIR) pursuant to Labor Code §1725.5. Registration with DIR must be maintained throughout the entire term of this Agreement, including any subsequent amendments.

B. The CONSULTANT shall comply with all of the applicable provisions of the California Labor Code requiring the payment of prevailing wages. The General Prevailing Wage Rate Determinations applicable to work under this

1 Agreement are available and on file with the Department of Transportation's Regional/District Labor Compliance
2 Officer (<https://dot.ca.gov/programs/construction/labor-compliance>). These wage rates are made a specific part
3 of this Agreement by reference pursuant to Labor Code §1773.2 and will be applicable to work performed at a
4 construction project site. Prevailing wages will be applicable to all inspection work performed at COUNTY
5 construction sites, at COUNTY facilities and at off-site locations that are set up by the construction contractor
6 or one of its subcontractors solely and specifically to serve COUNTY projects. Prevailing wage requirements
7 do not apply to inspection work performed at the facilities of vendors and commercial materials suppliers that
8 provide goods and services to the general public.

9 C. General Prevailing Wage Rate Determinations applicable to this PROJECT may also be obtained from the
10 Department of Industrial Relations website at <http://www.dir.ca.gov>.

11 D. Payroll Records

12 1. Each CONSULTANT and subconsultant shall keep accurate certified payroll records and supporting
13 documents as mandated by Labor Code §1776 and as defined in 8 CCR §16000 showing the name,
14 address, social security number, work classification, straight time and overtime hours worked each day and
15 week, and the actual per diem wages paid to each journeyman, apprentice, worker, or other employee
16 employed by the CONSULTANT or subconsultant in connection with the public work. Each payroll record
17 shall contain or be verified by a written declaration that it is made under penalty of perjury, stating both of
18 the following:

19 a. The information contained in the payroll record is true and correct.

20 b. The employer has complied with the requirements of Labor Code §1771, §1811, and §1815 for any
21 work performed by his or her employees on the public works project.

22 2. The payroll records enumerated under paragraph (1) above shall be certified as correct by the
23 CONSULTANT under penalty of perjury. The payroll records and all supporting documents shall be made
24 available for inspection and copying by COUNTY representatives at all reasonable hours at the principal
25 office of the CONSULTANT. The CONSULTANT shall provide copies of certified payrolls or permit
26 inspection of its records as follows:

27 a. A certified copy of an employee's payroll record shall be made available for inspection or furnished
28 to the employee or the employee's authorized representative on request.

29 b. A certified copy of all payroll records enumerated in paragraph (1) above, shall be made available

1 for inspection or furnished upon request to a representative of COUNTY, the Division of Labor
2 Standards Enforcement and the Division of Apprenticeship Standards of the Department of Industrial
3 Relations. Certified payrolls submitted to COUNTY, the Division of Labor Standards Enforcement
4 and the Division of Apprenticeship Standards shall not be altered or obliterated by the
5 CONSULTANT.

6 c. The public shall not be given access to certified payroll records by the CONSULTANT. The
7 CONSULTANT is required to forward any requests for certified payrolls to the COUNTY Contract
8 Administrator by both email and regular mail on the business day following receipt of the request.

9 3. Each CONSULTANT shall submit a certified copy of the records enumerated in paragraph (1) above, to the
10 entity that requested the records within ten (10) calendar days after receipt of a written request.

11 4. Any copy of records made available for inspection as copies and furnished upon request to the public or
12 any public agency by COUNTY shall be marked or obliterated in such a manner as to prevent disclosure
13 of each individual's name, address, and social security number. The name and address of the
14 CONSULTANT or subconsultant performing the work shall not be marked or obliterated.

15 5. The CONSULTANT shall inform COUNTY of the location of the records enumerated under paragraph (1)
16 above, including the street address, city and county, and shall, within five (5) working days, provide a notice
17 of a change of location and address.

18 6. The CONSULTANT or subconsultant shall have ten (10) calendar days in which to comply subsequent to
19 receipt of written notice requesting the records enumerated in paragraph (1) above. In the event the
20 CONSULTANT or subconsultant fails to comply within the ten (10) day period, he or she shall, as a penalty
21 to COUNTY, forfeit one hundred dollars (\$100) for each calendar day, or portion thereof, for each worker,
22 until strict compliance is effectuated. Such penalties shall be withheld by COUNTY from payments then
23 due. CONSULTANT is not subject to a penalty assessment pursuant to this section due to the failure of a
24 subconsultant to comply with this section.

25 E. When prevailing wage rates apply, the CONSULTANT is responsible for verifying compliance with certified
26 payroll requirements. Invoice payment will not be made until the invoice is approved by the COUNTY Contract
27 Administrator.

28 F. Penalty

29 1. The CONSULTANT and any of its subconsultants shall comply with Labor Code §1774 and §1775.

1 Pursuant to Labor Code §1775, the CONSULTANT and any subconsultant shall forfeit to the COUNTY a
2 penalty of not more than two hundred dollars (\$200) for each calendar day, or portion thereof, for each
3 worker paid less than the prevailing rates as determined by the Director of DIR for the work or craft in which
4 the worker is employed for any public work done under the Agreement by the CONSULTANT or by its
5 subconsultant in violation of the requirements of the Labor Code and in particular, Labor Code §§1770 to
6 1780, inclusive.

- 7 2. The amount of this forfeiture shall be determined by the Labor Commissioner and shall be based on
8 consideration of mistake, inadvertence, or neglect of the CONSULTANT or subconsultant in failing to pay
9 the correct rate of prevailing wages, or the previous record of the CONSULTANT or subconsultant in
10 meeting their respective prevailing wage obligations, or the willful failure by the CONSULTANT or
11 subconsultant to pay the correct rates of prevailing wages. A mistake, inadvertence, or neglect in failing to
12 pay the correct rates of prevailing wages is not excusable if the CONSULTANT or subconsultant had
13 knowledge of the obligations under the Labor Code. The CONSULTANT is responsible for paying the
14 appropriate rate, including any escalations that take place during the term of the Agreement.
- 15 3. In addition to the penalty and pursuant to Labor Code §1775, the difference between the prevailing wage
16 rates and the amount paid to each worker for each calendar day or portion thereof for which each worker
17 was paid less than the prevailing wage rate shall be paid to each worker by the CONSULTANT or
18 subconsultant.
- 19 4. If a worker employed by a subconsultant on a public works project is not paid the general prevailing per
20 diem wages by the subconsultant, the prime CONSULTANT of the project is not liable for the penalties
21 described above unless the prime CONSULTANT had knowledge of that failure of the subconsultant to pay
22 the specified prevailing rate of wages to those workers or unless the prime CONSULTANT fails to comply
23 with all of the following requirements:
 - 24 a. The Agreement executed between the CONSULTANT and the subconsultant for the performance
25 of work on public works projects shall include a copy of the requirements in Labor Code §§ 1771,
26 1775, 1776, 1777.5, 1813, and 1815.
 - 27 b. The CONSULTANT shall monitor the payment of the specified general prevailing rate of per diem
28 wages by the subconsultant to the employees by periodic review of the certified payroll records of
29 the subconsultant.

1 c. Upon becoming aware of the subconsultant's failure to pay the specified prevailing rate of wages to
2 the subconsultant's workers, the CONSULTANT shall diligently take corrective action to halt or
3 rectify the failure, including but not limited to, retaining sufficient funds due the subconsultant for
4 work performed on the public works project.

5 d. Prior to making final payment to the subconsultant for work performed on the public works project,
6 the CONSULTANT shall obtain an affidavit signed under penalty of perjury from the subconsultant
7 that the subconsultant had paid the specified general prevailing rate of per diem wages to the
8 subconsultant's employees on the public works project and any amounts due pursuant to Labor
9 Code §1813.

10 5. Pursuant to Labor Code §1775, COUNTY shall notify the CONSULTANT on a public works project within
11 fifteen (15) calendar days of receipt of a complaint that a subconsultant has failed to pay workers the
12 general prevailing rate of per diem wages.

13 6. If COUNTY determines that employees of a subconsultant were not paid the general prevailing rate of per
14 diem wages and if COUNTY did not retain sufficient money under the Agreement to pay those employees
15 the balance of wages owed under the general prevailing rate of per diem wages, the CONSULTANT shall
16 withhold an amount of moneys due the subconsultant sufficient to pay those employees the general
17 prevailing rate of per diem wages if requested by COUNTY.

18 G. Hours of Labor

19 Eight (8) hours labor constitutes a legal day's work. The CONSULTANT shall forfeit, as a penalty to the
20 COUNTY, twenty-five dollars (\$25) for each worker employed in the execution of the Agreement by the
21 CONSULTANT or any of its subconsultants for each calendar day during which such worker is required or
22 permitted to work more than eight (8) hours in any one calendar day and forty (40) hours in any one calendar
23 week in violation of the provisions of the Labor Code, and in particular §§1810 to 1815 thereof, inclusive,
24 except that work performed by employees in excess of eight (8) hours per day, and forty (40) hours during any
25 one week, shall be permitted upon compensation for all hours worked in excess of eight (8) hours per day and
26 forty (40) hours in any week, at not less than one and one-half (1.5) times the basic rate of pay, as provided
27 in §1815.

28 H. Employment of Apprentices

29 1. Where either the prime Agreement or the subagreement exceeds thirty thousand dollars (\$30,000), the

1 CONSULTANT and any subconsultants under him or her shall comply with all applicable requirements of
2 Labor Code §§ 1777.5, 1777.6 and 1777.7 in the employment of apprentices.

- 3 2. CONSULTANTS and subconsultants are required to comply with all Labor Code requirements regarding
4 the employment of apprentices, including mandatory ratios of journey level to apprentice workers. Prior to
5 commencement of work, CONSULTANT and subconsultants are advised to contact the DIR Division of
6 Apprenticeship Standards website at <https://www.dir.ca.gov/das/>, for additional information regarding the
7 employment of apprentices and for the specific journey-to- apprentice ratios for the Agreement work. The
8 CONSULTANT is responsible for all subconsultants' compliance with these requirements. Penalties are
9 specified in Labor Code §1777.7.

10 **ARTICLE XIII CONFLICT OF INTEREST**

- 11 A. CONSULTANT shall cause itself, its respective employees, agents, representatives, or independent contractors
12 and its subconsultants as well as their respective employees, agents, representatives, or independent
13 contractors to comply with all applicable conflict of interest laws and regulations, including but not limited to the
14 Political Reform Act and California Government Code section 1090. Furthermore, CONSULTANT shall cause
15 itself, its respective employees, agents, representatives, or independent contractors and its subconsultants as
16 well as their respective employees, agents, representatives, or independent contractors to comply with the
17 COUNTY's Conflict of Interest Code. CONSULTANT further agrees to cause itself, its respective employees,
18 agents, representatives, or independent contractors to complete any statements of economic interest if required
19 by COUNTY or State law. Notwithstanding any other provision contained in this Agreement, for a breach or
20 violation of this provision, COUNTY shall have the right to immediately terminate this Agreement without liability
21 and seek any other remedy provided by law or equity or this Agreement.
- 22 B. During the term of this Agreement, the CONSULTANT shall disclose any financial, business, or other
23 relationship with COUNTY that may have an impact upon the outcome of this Agreement or any ensuing
24 COUNTY construction project. The CONSULTANT shall also list current clients who may have a financial
25 interest in the outcome of this Agreement or any ensuing COUNTY construction project which will follow.
- 26 C. CONSULTANT certifies that it has disclosed to COUNTY any actual, apparent, or potential conflicts of interest
27 that may exist relative to the services to be provided pursuant to this Agreement. CONSULTANT agrees to
28 advise COUNTY of any actual, apparent or potential conflicts of interest that may develop subsequent to the
29 date of execution of this Agreement.

1 D. CONSULTANT hereby certifies that it does not now have nor shall it acquire any financial or business interest
2 that would conflict with the performance of services under this Agreement.

3 E. The CONSULTANT (nor any subconsultant nor any firms affiliated with the CONSULTANT or any
4 subconsultant) shall not be eligible to perform any further phases of this PROJECT or to bid on any construction
5 contract or on any Agreement to provide construction inspection for any construction project resulting from this
6 Agreement. An affiliated firm is one, which is subject to the control of the same persons, though joint ownership
7 or otherwise.

8 **ARTICLE XIV REBATES, KICKBACKS OR OTHER UNLAWFUL CONSIDERATION**

9 The CONSULTANT warrants that this Agreement was not obtained or secured through rebates, kickbacks or other
10 unlawful consideration either promised or paid to any COUNTY employee. For breach or violation of this warranty,
11 COUNTY shall have the right, in its discretion, to terminate this Agreement without liability, to pay only for the value
12 of the work actually performed, or to deduct from the Agreement price or otherwise recover the full amount of such
13 rebate, kickback or other unlawful consideration.

14 **ARTICLE XV PROHIBITION OF EXPENDING COUNTY STATE OR FEDERAL FUNDS FOR LOBBYING**

15 If Article V.K identifies that federal funds are used, in whole or in part, to fund the services performed under this
16 Agreement and such federal funding will exceed \$150,000 then compliance with the provisions of Article XV as
17 described below is required. If Article V.K identifies that services are not funded in whole or in part with Federal
18 funds of such federal funding will be less than \$150,000 then compliance with the requirements of Article XV is not
19 required.

20 A. The CONSULTANT certifies, to the best of his or her knowledge and belief, that:

- 21 1. No state, federal or COUNTY appropriated funds have been paid or will be paid, by or on behalf of the
22 CONSULTANT, to any person for influencing or attempting to influence an officer or employee of any local,
23 state or federal agency, a Member of the State Legislature or United States Congress, an officer or
24 employee of the Legislature or Congress, or any employee of a Member of the Legislature or Congress in
25 connection with the awarding of making of this Agreement, or with the extension, continuation, renewal,
26 amendment, or modification of this Agreement.
- 27 2. If any funds other than federal appropriated funds have been paid or will be paid to any person for
28 influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an
29 officer or employee of Congress, or an employee of a Member of Congress in connection with this

1 Agreement, the CONSULTANT shall complete and submit Standard Form-LLL, "Disclosure Form to Report
2 Lobbying", in accordance with its instructions.

3 B. This certification is a material representation of fact upon which reliance was placed when this transaction was
4 made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction
5 imposed by 31 U.S.C. Section 1352. Any person who fails to file the required certification shall be subject to a
6 civil penalty of not less than ten thousand dollars (\$10,000) and not more than one hundred thousand dollars
7 (\$100,000) for each such failure.

8 C. The CONSULTANT also agrees by signing this document that he or she shall require that the language of this
9 certification be included in all lower tier subagreements, which exceed one hundred thousand dollars
10 (\$100,000), and that all such subrecipients shall certify and disclose accordingly.

11 **ARTICLE XVI NON-DISCRIMINATION CLAUSE AND STATEMENT OF COMPLIANCE**

12 A. The CONSULTANT's signature affixed herein and dated shall constitute a certification under penalty of perjury
13 under the laws of the State of California that CONSULTANT has, unless exempt, complied with the
14 nondiscrimination program requirements of Government Code Section 12990 and 2 California Code of
15 Regulations (CCR) Section 8103.

16 B. During the performance of this Agreement, CONSULTANT and its subconsultants shall not deny the
17 Agreement's benefits to any person on the basis of race, religious creed, color, national origin, ancestry,
18 physical disability, mental disability, medical condition, genetic information, marital status, sex, gender, gender
19 identity, gender expression, age, sexual orientation, or military and veteran status, nor shall they unlawfully
20 discriminate, harass, or allow harassment against any employee or applicant for employment because of race,
21 religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic
22 information, marital status, sex, gender, gender identity, gender expression, age, sexual orientation, or military
23 and veteran status. CONSULTANT and subconsultants shall insure that the evaluation and treatment of their
24 employees and applicants for employment are free from such discrimination and harassment.

25 C. CONSULTANT and subconsultants shall comply with the provisions of the Fair Employment and Housing Act
26 (Government Code Section 12990 et seq.), the applicable regulations promulgated there under (2 CCR Section
27 11000 et seq.), the provisions of Government Code Sections 11135-11139.5, and the regulations or standards
28 adopted by COUNTY to implement such article. The applicable regulations of the Fair Employment and
29 Housing Commission implementing Government Code Section 12990 (a-f), set forth 2 CCR Sections 8100-

8504, are incorporated into this Agreement by reference and made a part hereof as if set forth in full.

D. CONSULTANT shall permit access by representatives of the Department of Fair Employment and Housing and the COUNTY upon reasonable notice at any time during the normal business hours, but in no case less than twenty-four (24) hours' notice, to such of its books, records, accounts, and all other sources of information and its facilities as said Department or COUNTY shall require to ascertain compliance with this cause.

E. CONSULTANT and its subconsultants shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other agreement.

F. CONSULTANT shall include the nondiscrimination and compliance provisions of this clause in all subcontracts to perform work under this Agreement.

G. The CONSULTANT, with regard to the work under this Agreement, shall act in accordance with Title VI of the Civil Rights Act of 1964 (42 U.S.C. Section 2000d et seq.). Title VI provides that the recipients of federal assistance will implement and maintain a policy of nondiscrimination in which no person in the United States shall, on the basis of race, color, national origin, religion, sex, age, disability, be excluded from participation in, denied the benefits of or subject to discrimination under any program or activity by the recipients of federal assistance or their assignees and successors in interest.

H. The CONSULTANT shall comply with regulations relative to non-discrimination in federally-assisted programs of the U.S. Department of Transportation (49 CFR 21 – Effectuation of Title VI of the Civil Rights Act of 1964). Specifically, the CONSULTANT shall not participate either directly or indirectly in the discrimination prohibited by 49 CFR Section 21.5, including employment practices and the selection and retention of subconsultants.

I. CONSULTANT, subrecipient or subconsultant will never exclude any person from participation in, deny any person the benefits of, or otherwise discriminate against anyone in connection with the award and performance of any contract covered by 49 CFR 26 on the basis of race, color, sex, or national origin. In administering the COUNTY components of DBE Program Plan, CONSULTANT, subrecipient or subconsultant will not, directly or through contractual or other arrangements, use criteria or methods of administration that have the effect of defeating or substantially impairing accomplishment of the objectives of the DBE Program Plan with respect to individuals of a particular race, color, sex, or national origin.

ARTICLE XVII DEBARMENT AND SUSPENSION CERTIFICATION

A. The CONSULTANT's signature affixed herein shall constitute a certification under penalty of perjury under the laws of the State of California, that the CONSULTANT or any person associated therewith in the capacity of

owner, partner, director, officer or manager:

1. Is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any federal agency;
2. Has not been suspended, debarred, voluntarily excluded, or determined ineligible by any federal agency within the past three (3) years;
3. Does not have a proposed debarment pending; and
4. Has not been indicted, convicted, or had a civil judgment rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past three (3) years.

B. Any exceptions to this certification must be disclosed to COUNTY. Exceptions will not necessarily result in denial of recommendation for award, but will be considered in determining responsibility. Disclosures must indicate the party to whom the exceptions apply, the initiating agency, and the dates of agency action.

C. Exceptions to the Federal Government excluded parties (<https://sam.gov/content/home>) maintained by the U.S. General Services Administration are to be determined by the Federal Highway Administration (FHWA).

ARTICLE XVIII DISADVANTAGED BUSINESS ENTERPRISES (DBE) PARTICIPATION

If Article V.K identifies that Federal funds are used, in whole or in part, to fund the services performed under this Agreement then compliance with the provisions of Article XVIII as described below is required. If Article V.K identifies that services are not funded in whole or in part with Federal funds than compliance with the requirements of Article XVIII is not required.

A. CONSULTANT or subconsultants shall take necessary and reasonable steps to ensure that DBEs have opportunities to participate in the Agreement (49 CFR 26). To ensure equal participation of DBEs provided in 49 CFR 26.5, the COUNTY shows a contract goal for DBEs. CONSULTANT shall make work available to DBEs and select work parts consistent with available DBE subconsultants and suppliers.

CONSULTANT shall meet the DBE goal shown elsewhere in these specials provisions or demonstrate that they made adequate good faith efforts to meet this goal. It is CONSULTANT's responsibility to verify at date of proposal opening that the DBE firm is certified as a DBE by using the California Unified Certification Program (CUCP) database and possesses the most specific available North American Industry Classification System (NAICS) codes or work code applicable to the type of work the firm will perform on the Agreement. Additionally, the CONSULTANT is responsible to document the verification record by printing out the CUCP data for each DBE firm. A list of DBE's certified by the CUCP can be found at <https://dot.ca.gov/prgrams/civil-rights/dbe->

1 [search](#).

2 All DBE participation will count toward the California Department of Transportation's federally mandated
3 statewide overall DBE goal. Credit for materials or supplies CONSULTANT purchases from DBEs counts
4 towards the goal in the following manner:

- 5 • 100 percent counts if the materials or supplies are obtained from a DBE manufacturer.
- 6 • 60 percent counts if the materials or supplies are purchased from a DBE regular dealer.
- 7 • Only fees, commissions, and charges for assistance in the procurement and delivery of materials or
8 supplies count if obtained from a DBE that is neither a manufacturer nor regular dealer. 40 CFR 26.55
9 defines "manufacturer" and "regular dealer."

10 This Agreement is subject to 49 CFR 26 entitled "Participation by Disadvantaged Business Enterprises in
11 Department of Transportation Financial Assistance Programs." CONSULTANTS who enter into a federally-
12 funded agreement will assist the COUNTY in a good faith efforts to achieve California's statewide overall DBE
13 goal.

14 B. The goal for DBE participation for this Agreement is N/A %. Participation by DBE CONSULTANT or
15 subconsultants shall be in accordance with information contained in Exhibit 10-02: Consultant Contract DBE
16 Commitment attached hereto and incorporated as part of the Agreement. If a DBE subconsultant is unable to
17 perform, CONSULTANT must make a good faith effort to replace him/her with another DBE subconsultant, if
18 the goal is not otherwise met.

19 C. CONSULTANT can meet the DBE participation goal by either documenting commitments to DBEs to meet the
20 Agreement goal, or by documenting adequate good faith efforts to meet the Agreement goal. An adequate
21 good faith means that the CONSULTANT must show that it took all necessary and reasonable steps to achieve
22 a DBE gal that, by their scope, intensity, and appropriateness to the objective, could reasonably be expected
23 to meet the DBE goal. If CONSULTANT has not met the DBE goal, complete and submit Exhibit 15-H: DBE
24 Information – Good Faith Efforts to document efforts to meet the goal. Refer to 49 CFR 26 for guidance
25 regarding evaluation of good faith efforts to meet the DBE goal.

26 D. Contract Assurance

27 Under 49 CFR 26.13(b):

28 CONSULTANT, subrecipients or subconsultants shall not discriminate on the basis of race, color, national
29 origin, or sex in the performance of this Agreement. CONSULTANT shall carry out applicable requirements of

1 49 CFR 26 in the award and administration of federal-aid contracts.

2 Failure by the CONSULTANT to carry out these requirements is a material breach of this Agreement, which
3 may result in the termination of this Agreement or such other remedy as the recipient deems appropriate, which
4 may include, but is not limited to:

- 5 1) Withholding monthly progress payments;
- 6 2) Assessing sanctions;
- 7 3) Liquidated damages; and/or
- 8 4) Disqualifying CONSULTANT from future proposing as non-responsible

9 E. Termination and Substitution of DBE subconsultants

10 CONSULTANT shall utilize the specific DBE listed to perform the work and supply the materials for which each
11 is listed unless CONSULTANT or DBE subconsultant obtains the COUNTY's written consent. CONSULTANT
12 shall not terminate or substitute a listed DBE for convenience and perform the work with their own forces or
13 obtain materials from other sources without authorization from the COUNTY. Unless the COUNTY's consent
14 is provided, the CONSULTANT shall not be entitled to any payment for work or material unless it is performed
15 or supplied by the listed DBE on the Exhibit 10-02: Consultant Contract DBE Commitment form, included in the
16 Bid.

17 The COUNTY authorizes a request to use other forces or sources of materials if CONSULTANT shows any of
18 the following justifications:

- 19 1) Listed DBE fails or refuses to execute a written contract based on plans and specifications for the
20 project.
- 21 2) The COUNTY stipulate that a bond is a condition of executing the subcontract and the listed DBE
22 fails to meet the COUNTY's bond requirements.
- 23 3) Work requires a CONSULTANT's license and listed DBE does not have a valid license under
24 Contractors License Law.
- 25 4) Listed DBE fails or refuses to perform the work or furnish the listed materials (failing or refusing to
26 perform is not an allowable reason to remove a DBE if the failure or refusal is a result of bad faith
27 or discrimination).
- 28 5) Listed DBE's work is unsatisfactory and not in compliance with the Agreement.
- 29 6) Listed DBE is ineligible to work on the project because of suspension or debarment.

- 1) Listed DBE becomes bankrupt or insolvent.
- 2) Listed DBE voluntarily withdraws with written notice from the Agreement.
- 3) Listed DBE is ineligible to receive credit for the type of work required.
- 4) Listed DBE owner dies or becomes disabled resulting in the inability to perform the work on the Agreement.
- 5) The COUNTY determines other documented good cause.

CONSULTANT shall notify the original DBE of the intent to use other forces or material sources and provide the reasons and provide the DBE with 5 days to respond to the notice and advise CONSULTANT and the COUNTY of the reasons why the use of other forces or sources of materials should not occur.

CONSULTANT's request to use other forces or material sources must include:

- 1) One or more of the reasons listed in the preceding paragraph.
- 2) Notices from CONSULTANT to the DBE regarding the request.
- 3) Notices for the DBEs to CONSULTANT regarding the request.

If a listed DBE is terminated or substituted, CONSULTANT must make good faith efforts to find another DBE to substitute for the original DBE. The substitute DBE must perform at least the same amount of work as the original DBE under the Agreement to the extent to meet or exceed the DBE goal.

F. Commitment and Utilization

The COUNTY's DBE program must include a monitoring and enforcement mechanism to ensure that DBE commitments reconcile to DBE utilization.

CONSULTANT shall:

- 1) Notify the COUNTY Contract Administrator or designated representative of any changes to its anticipated DBE participation.
- 2) Provide this notification before starting the affected work.
- 3) Maintain records including:
 - Name and business address of each 1st-tier subconsultant
 - Name and business address of each DBE subconsultant, DBE vendor, and DBE trucking company, regardless of tier
 - Date of payment and total amount paid to each business (see Exhibit 9-F: Monthly Disadvantaged Business Enterprise Payment)

1 If CONSULTANT is a DBE CONSULTANT, they shall include the date of work performed by their own forces
2 and the corresponding value of the work.

3 If a DBE is decertified before completing its work, the DBE must notify CONSULTANT in writing of the
4 decertified date. If a business becomes a certified DBE before completing its work, the business must notify
5 CONSULTANT in writing of the certification date. CONSULTANT shall complete a Disadvantaged Business
6 Enterprise (DBE) Certification Status Change, Exhibit 17-O, form and submit the form to the COUNTY within
7 thirty (30) days of Agreement acceptance.

8 Upon work completion, CONSULTANT shall complete Exhibit 17-F: Final Report – Utilization of Disadvantaged
9 Business Enterprises (DBE), First-Tier Subcontractors and submit it to the COUNTY within ninety (90) days of
10 contract acceptance. The COUNTY will withhold \$10,000 until the form is submitted. The COUNTY will release
11 the withhold upon submissions of the completed form.

12 In the COUNTY's reports of DBE participation to Caltrans, the COUNTY must display both commitments and
13 attainments.

14 G. A DBE is only eligible to be counted toward the Agreement goal if it performs a commercially useful function
15 (CUF) on the Agreement. CUF must be evaluated on an agreement by agreement basis. A DBE performs a
16 CUF when it is responsible for execution of the work of the Agreement and is carrying out its responsibilities by
17 actually performing, managing, and supervising the work involved. To perform a CUF, the DBE must also be
18 responsible, with respect to quantity, ordering the material and installing (where applicable), and paying for the
19 material itself, industry practices, whether the amount the firm is to be paid under the Agreement is
20 commensurate with the work it is actually performing, and other relevant factors.

21 H. A DBE does not perform a CUF if its role is limited to that of an extra participant in a transaction, agreement, or
22 project through which funds are passed in order to obtain the appearance of DBE participation. In determining
23 whether a DBE is such an extra participant, examine similar transactions, particularly those in which DBEs do
24 not participate.

25 I. A DBE does not perform or exercise responsibility for at least thirty percent (30%) of the total cost of its
26 Agreement with its own work force, or the DBE subcontracts a greater portion of the work of the Agreement
27 than would be expected on the basis of normal industry practice for the type of work involved, it will be presumed
28 that it is not performing a CUF.

29 J. CONSULTANT shall maintain records of materials purchased or supplied for all subcontracts entered into with

1 certified DBEs. The record shall show the name and business address of each DBE or vendor and the total
2 dollar amount actually paid each DBE or vendor, regardless of tier. The records shall show the date of payment
3 and the total dollar figure paid to all firms, DBE CONSULTANT's shall also show the date of work performed
4 by their own forces along with the corresponding dollar value of the work.

5 K. If a DBE subconsultant is decertified during the life of the Agreement, the decertified subconsultant shall notify
6 CONSULTANT in writing with the date of decertification. If a subconsultant becomes a certified DBE during
7 the life of the Agreement, the subconsultant shall notify CONSULTANT in writing with the date of certification.
8 Any changes should be reported to COUNTY Contract Administrator within thirty (30) calendar days.

9 L. After submitting an invoice for reimbursement that includes a payment to a DBE, but no later than the 10th of
10 the following month, the prime contractor/consultant shall complete and email the Exhibit 9-F: Disadvantaged
11 Business Enterprise Running Tally of Payments to business.support.unit@dot.ca.gov with a copy to the
12 Agency.

13 M. Any subcontract entered into as a result of this Agreement shall contain all of the provisions of this section.

14 **ARTICLE XIX INDEMNIFICATION AND INSURANCE**

15 A. Basic Indemnity

16 1. To the fullest extent permitted by applicable law, CONSULTANT agrees to defend (through legal counsel
17 reasonably acceptable to COUNTY), indemnify, and hold harmless the County of Riverside, its Agencies,
18 Districts, Departments and Special Districts, Board of Supervisors, elected and appointed officials, and
19 each of their respective directors, members officers, employees, agents, volunteers and representatives
20 ("Indemnitees") and each of them from any and all Losses that arise out of or relate to any act or omission
21 constituting ordinary and not professional negligence (including, without limitation, negligent breach of
22 contract), recklessness, or willful misconduct on the part of CONSULTANT or its subconsultants or their
23 respective employees, agents, representatives, or independent contractors.

24 2. "Losses" shall mean any and all economic and non-economic losses, costs, liabilities, claims, damages,
25 actions, judgments, settlements and expenses, including, without limitation, full and actual attorney's fees
26 (including, without limitation, attorney's fees for trial and on appeal), expert and non-expert witness fees,
27 arbitrator and arbitration fees and mediator and mediation fees.

28 3. CONSULTANT further agrees to and shall indemnify and hold harmless the Indemnitees from all liability
29 arising from suits, claims, demands, actions, or proceedings made by agents, employees or subcontractors

1 of CONSULTANT for salary, wages, compensation, health benefits, insurance, retirement or any other
2 benefit not explicitly set forth in this Agreement and arising out of work performed for COUNTY pursuant to
3 this Agreement. The Indemnitees shall be entitled to the defense and indemnification provided for
4 hereunder regardless of whether the Loss is in part caused or contributed to by the acts or omissions of an
5 Indemnitee or any other person or entity; provided however, that nothing contained herein shall be
6 construed as obligating CONSULTANT to indemnify and hold harmless any Indemnitee to the extent not
7 required under the provisions of Paragraph B. below.

8 B. Indemnity for Design Professional Services

9 1. To the fullest extent permitted by Applicable Law, CONSULTANT agrees to defend (through legal counsel
10 reasonably acceptable to COUNTY), indemnify and hold harmless the Indemnitees, and each of them,
11 against any and all Losses that arise out of, pertain to, or relate to, any negligence, recklessness or willful
12 misconduct constituting professional negligence on the part of CONSULTANT or its subconsultants, or their
13 respective employees, agents, representatives, or independent contractors. The Indemnitees shall be
14 entitled to the defense, and indemnification provided for hereunder regardless of whether the Loss is, in
15 part, caused or contributed to by the acts or omissions of an Indemnitee or any other person or entity;
16 provided, however, that nothing contained herein shall be construed as obligating CONSULTANT to
17 indemnify and hold harmless any Indemnitee to the extent not required under the provisions of this section.
18 CONSULTANT shall defend and pay, all costs and fees, including but not limited to attorney fees, cost of
19 investigation, and defense, in any loss, suits, claims, demands, actions, or proceedings to the extent and
20 in proportion to the percentage, such costs and fees arise out of, pertain to, or relate to the negligence,
21 recklessness or willful misconduct of CONSULTANT arising out of or from the performance of professional
22 design services under this Agreement. The duty to defend applies to any alleged or actual negligence,
23 recklessness, willful misconduct of CONSULTANT. The cost for defense shall apply whether or not
24 CONSULTANT is a party to the lawsuit and shall apply whether or not CONSULTANT is directly liable to
25 the plaintiffs in the lawsuit. The duty to defend applies even if Indemnitees are alleged or found to be actively
26 negligent, but only in proportion to the percentage of fault or negligence of CONSULTANT.

27 2. Without affecting the rights of COUNTY under any other provision of this Agreement, CONSULTANT shall
28 not be required to indemnify or hold harmless or provide defense or defense costs to an Indemnitee for a
29 Loss due to that Indemnitee's negligence, recklessness or willful misconduct; provided, however, that such

1 negligence, recklessness or willful misconduct has been determined by agreement of CONSULTANT and
2 Indemnitee or has been adjudged by the findings of a court of competent jurisdiction.

3 3. CONSULTANT agrees to obtain or cause to be obtained executed defense and indemnity agreements with
4 provisions identical to those set forth in this section from each and every subconsultant, of every Tier.

5 4. CONSULTANT's indemnification obligations under this Agreement shall not be limited by the amount or
6 type of damages, compensation or benefits payable under any policy of insurance, workers' compensation
7 acts, disability benefit acts or other employee benefit acts.

8 5. The Indemnitees shall be entitled to recover their attorneys' fees, costs and expert and consultant costs in
9 pursuing or enforcing their right to defense and/or indemnification under this Agreement.

10 C. INSURANCE

11 Without limiting or diminishing the CONSULTANT's obligation to indemnify or hold the COUNTY harmless,
12 CONSULTANT shall procure and maintain or cause to be maintained, at its sole cost and expense, the following
13 insurance coverage's during the term of this Agreement. As respects to the insurance section only, the
14 COUNTY herein refers to the County of Riverside, its Agencies, Districts, Special Districts, and Departments,
15 their respective directors, officers, Board of Supervisors, employees, elected or appointed officials, agents or
16 representatives as Additional Insureds.

17 1. Workers' Compensation:

18 If the CONSULTANT has employees as defined by the State of California, the CONSULTANT shall maintain
19 statutory Workers' Compensation Insurance (Coverage A) as prescribed by the laws of the State of
20 California. Policy shall include Employers' Liability (Coverage B) including Occupational Disease with limits
21 not less than \$1,000,000 per person per accident. The policy shall be endorsed to waive subrogation in
22 favor of the County of Riverside.

23 2. Commercial General Liability:

24 Commercial General Liability insurance coverage, including but not limited to, premises liability, unmodified
25 contractual liability, products and completed operations liability, personal and advertising injury, and cross
26 liability coverage, covering claims which may arise from or out of CONSULTANT's performance of its
27 obligations hereunder. Policy shall name the COUNTY as Additional Insured. Policy's limit of liability shall
28 not be less than \$2,000,000 per occurrence combined single limit. If such insurance contains a general
29 aggregate limit, it shall apply separately to this Agreement or be no less than two (2) times the occurrence

1 limit. Policy shall name the COUNTY as Additional Insureds.

2 3. Vehicle Liability:

3 If vehicles or mobile equipment are used in the performance of the obligations under this Agreement, then
4 CONSULTANT shall maintain liability insurance for all owned, non-owned or hired vehicles so used in an
5 amount not less than \$1,000,000 per occurrence combined single limit. If such insurance contains a general
6 aggregate limit, it shall apply separately to this Agreement or be no less than two (2) times the occurrence
7 limit. Policy shall name the COUNTY as Additional Insureds.

8 4. Professional Liability

9 CONSULTANT shall maintain Professional Liability Insurance providing coverage for the CONSULTANT's
10 performance of work included within this Agreement, with a limit of liability of not less then \$1,000,000 per
11 occurrence and \$2,000,000 annual aggregate. If CONSULTANT's Professional Liability Insurance is written
12 on a claims made basis rather than an occurrence basis, such insurance shall continue through the term
13 of this Agreement and CONSULTANT shall purchase at his sole expense either 1) an Extended Reporting
14 Endorsement (also, known as Tail Coverage); or 2) Prior Dates Coverage from new insurer with a
15 retroactive date back to the date of, or prior to, the inception of this Agreement; or 3) demonstrate through
16 Certificates of Insurance that CONSULTANT has maintained continuous coverage with the same or original
17 insurer. Coverage provided under items; 1), 2), or 3) will continue as long as the law allows.

18 5. General Insurance Provisions - All lines:

19 a. Any insurance carrier providing insurance coverage hereunder shall be admitted to the State of
20 California and have an A M BEST rating of not less than A: VIII (A:8) unless such requirements are
21 waived, in writing, by the COUNTY Risk Manager. If the COUNTY's Risk Manager waives a
22 requirement for a particular insurer such waiver is only valid for that specific insurer and only for one
23 policy term.

24 b. The CONSULTANT must declare its insurance self-insured retention for each coverage required
25 herein. If any such self-insured retention exceeds \$500,000 per occurrence each such retention shall
26 have the prior written consent of the COUNTY Risk Manager before the commencement of operations
27 under this Agreement. Upon notification of self-insured retention unacceptable to the COUNTY, and at
28 the election of the COUNTY's Risk Manager, CONSULTANT's carriers shall either; 1) reduce or
29 eliminate such self-insured retention as respects this Agreement with the COUNTY, or 2) procure a

1 bond which guarantees payment of losses and related investigations, claims administration, and
2 defense costs and expenses.

3 c. CONSULTANT shall cause CONSULTANT's insurance carrier(s) to furnish the County of Riverside
4 with either 1) a properly executed original Certificate(s) of Insurance and certified original copies of
5 Endorsements effecting coverage as required herein, and 2) if requested to do so orally or in writing by
6 the COUNTY Risk Manager, provide original Certified copies of policies including all Endorsements
7 and all attachments thereto, showing such insurance is in full force and effect. Further, said
8 Certificate(s) and policies of insurance shall contain the covenant of the insurance carrier(s) that thirty
9 (30) days written notice shall be given to the County of Riverside prior to any material modification,
10 cancellation, expiration or reduction in coverage of such insurance. In the event of a material
11 modification, cancellation, expiration, or reduction in coverage, this Agreement shall terminate forthwith,
12 unless the County of Riverside receives, prior to such effective date, another properly executed original
13 Certificate of Insurance and original copies of endorsements or certified original policies, including all
14 endorsements and attachments thereto evidencing coverage's set forth herein and the insurance
15 required herein is in full force and effect. CONSULTANT shall not commence operations until the
16 COUNTY has been furnished original Certificate (s) of Insurance and certified original copies of
17 endorsements and if requested, certified original policies of insurance including all endorsements and
18 any and all other attachments as required in this Section. An individual authorized by the insurance
19 carrier to do so on its behalf shall sign the original endorsements for each policy and the Certificate of
20 Insurance.

21 d. It is understood and agreed to by the parties hereto that the CONSULTANT's insurance shall be
22 construed as primary insurance, and the COUNTY's insurance and/or deductibles and/or self-insured
23 retention's or self-insured programs shall not be construed as contributory.

24 e. If, during the term of this Agreement or any extension thereof, there is a material change in the scope
25 of services; or, there is a material change in the equipment to be used in the performance of the scope
26 of work; or, the term of this Agreement, including any extensions thereof, exceeds five (5) years; the
27 COUNTY reserves the right to adjust the types of insurance and the monetary limits of liability required
28 under this Agreement, if in the COUNTY Risk Manager's reasonable judgment, the amount or type of
29 insurance carried by the CONSULTANT has become inadequate.

- 1 f. CONSULTANT shall pass down the insurance obligations contained herein to all tiers of subconsultants
2 working under this Agreement.
- 3 g. The insurance requirements contained in this Agreement may be met with a program(s) of self-
4 insurance acceptable to the COUNTY.
- 5 h. CONSULTANT agrees to notify COUNTY of any claim by a third party or any incident or event that may
6 give rise to a claim arising from the performance of this Agreement.

7 **ARTICLE XX FUNDING REQUIREMENTS**

- 8 A. It is mutually understood between the parties that this Agreement may have been written before ascertaining
9 the availability of funds or appropriation of funds, for the mutual benefit of both parties, in order to avoid program
10 and fiscal delays that would occur if the Agreement were executed after that determination was made.
- 11 B. This Agreement is valid and enforceable only if sufficient funds are made available to COUNTY for the purpose
12 of this Agreement. In addition, this Agreement is subject to any additional restrictions, limitations, conditions,
13 or any statute enacted by the Congress, State Legislature, or COUNTY governing board that may affect the
14 provisions, terms, or funding of this Agreement in any manner.
- 15 C. It is mutually agreed that if sufficient funds are not appropriated, this Agreement may be amended to reflect any
16 reduction in funds.
- 17 D. COUNTY has the option to terminate the Agreement pursuant to Article VI Termination, or by mutual agreement
18 to amend the Agreement to reflect any reduction of funds.

19 **ARTICLE XXI CHANGE IN TERMS**

- 20 A. This Agreement may be amended or modified only by mutual written agreement of the parties.
- 21 B. CONSULTANT shall only commence work covered by an amendment after the amendment is executed and
22 notification to proceed has been provided by COUNTY Contract Administrator.
- 23 C. There shall be no change in CONSULTANT Project Manager or members of the project team, as listed as Key
24 Personnel in the approved Scope of Services, which is a part of this Agreement without prior written approval
25 by COUNTY Contract Administrator.

26 **ARTICLE XXII CONTINGENT FEE**

27 CONSULTANT warrants, by execution of this Agreement that no person or selling agency has been employed, or
28 retained, to solicit or secure this Agreement upon an agreement or understanding, for a commission, percentage,
29 brokerage, or contingent fee, excepting bona fide employees, or bona fide established commercial or selling

1 agencies maintained by CONSULTANT for the purpose of securing business. For breach or violation of this
2 warranty, COUNTY has the right to annul this Agreement without liability; pay only for the value of the work actually
3 performed, or in its discretion to deduct from the Agreement price or consideration, or otherwise recover the full
4 amount of such commission, percentage, brokerage, or contingent fee.

5 **ARTICLE XXIII DISPUTES**

6 A. Prior to either party commencing any legal action under this Agreement, the parties agree to try in good faith,
7 to settle any dispute amicably between them. If a dispute has not been settled after forty-five (45) days of good-
8 faith negotiations and as may be otherwise provided herein, then either party may commence legal action
9 against the other. This Agreement shall be governed by the laws of the State of California. Any legal action
10 related to the performance or interpretation of this Agreement shall be filed only in the Superior Court of the
11 State of California located in Riverside, California, and the parties waive any provision of law providing for a
12 change of venue to another location. In the event any provision in this Agreement is held by a court of competent
13 jurisdiction to be invalid, void, or unenforceable, the remaining provisions will nevertheless continue in full force
14 without being impaired or invalidated in any way.

15 B. Any dispute, other than audit, concerning a question of fact arising under this Agreement that is not disposed
16 of by agreement shall be decided by a committee consisting of COUNTY Contract Administrator and Director
17 of Transportation, or designee, who may consider written or verbal information submitted by CONSULTANT.

18 C. Not later than thirty (30) days after completion of all deliverables necessary to complete the plans, specifications
19 and estimate, CONSULTANT may request review by COUNTY Governing Board of unresolved claims or
20 disputes, other than audit. The request for review will be submitted in writing.

21 D. Neither the pendency of a dispute, nor its consideration by the committee will excuse CONSULTANT from full
22 and timely performance in accordance with the terms of this Agreement.

23 **ARTICLE XXIV INSPECTION OF WORK**

24 CONSULTANT and any subconsultant shall permit COUNTY, the state, and the FHWA if federal participating funds
25 are used in this Agreement; to review and inspect the project activities and files at all reasonable times during the
26 performance period of this Agreement.

27 **ARTICLE XXV SAFETY**

28 A. CONSULTANT shall comply with OSHA regulations applicable to CONSULTANT regarding necessary safety
29 equipment or procedures. CONSULTANT shall comply with safety instructions issued by COUNTY Safety

1 Officer and other COUNTY representatives. CONSULTANT personnel shall wear hard hats and safety vests
2 at all times while working on the construction project site.

3 B. Pursuant to the authority contained in Vehicle Code Section 591, COUNTY has determined that such areas are
4 within the limits of the project and are open to public traffic. CONSULTANT shall comply with all of the
5 requirements set forth in Divisions 11, 12, 13, 14, and 15 of the Vehicle Code. CONSULTANT shall take all
6 reasonably necessary precautions for safe operation of its vehicles and the protection of the traveling public
7 from injury and damage from such vehicles.

8 C. Any subcontract entered into as a result of this Agreement, shall contain all of the provisions of this Article.

9 D. In the event CONSULTANT performs trenching of five (5) feet or deeper in the performance any service
10 provided under this Agreement, CONSULTANT must have a Division of Occupational Safety and Health (CAL-
11 OSHA) permit(s), as outlined in California Labor Code Sections 6500 and 6705, prior to the initiation of any
12 practices, work, method, operation, or process related to the construction or excavation of trenches which are
13 five (5) feet or deeper.

14 **ARTICLE XXVI OWNERSHIP OF DATA**

15 A. It is mutually agreed that all materials prepared by CONSULTANT under this Agreement shall become the
16 property of COUNTY, and CONSULTANT shall have no property rights therein whatsoever. Immediately, upon
17 termination, COUNTY shall be entitled to, and CONSULTANT shall deliver to COUNTY, reports, investigations,
18 appraisals, inventories, studies, analyses, drawings and data estimates performed to that date, whether
19 completed or not, and other such materials as may have been prepared or accumulated to date by
20 CONSULTANT in performing this Agreement which is not CONSULTANT's privileged information, as defined
21 by law, or CONSULTANT's personnel information, along with all other property belonging exclusively to
22 COUNTY which is in CONSULTANT's possession. Publication of the information derived from work performed
23 or data obtained in connection with services rendered under this Agreement must be approved in writing by
24 COUNTY.

25 B. Additionally, it is agreed that the Parties intend this to be an Agreement for services and each considers the
26 products and results of the services to be rendered by CONSULTANT hereunder to be work made for hire.
27 CONSULTANT acknowledges and agrees that the work (and all rights therein, including, without limitation,
28 copyright) belongs to and shall be the sole and exclusive property of COUNTY without restriction or limitation
29 upon its use or dissemination by COUNTY.

1 C. Nothing herein shall constitute or be construed to be any representation by CONSULTANT that the work product
2 is suitable in any way for any other project except the one detailed in this Agreement. Any reuse by COUNTY
3 for another project or project location shall be at COUNTY's sole risk.

4 D. COUNTY may permit copyrighting reports or other agreement products. If copyrights are permitted; the
5 Agreement shall provide that the FHWA and COUNTY shall have the royalty-free nonexclusive and irrevocable
6 right to reproduce, publish, or otherwise use; and to authorize others to use, the work for government purposes.

7 **ARTICLE XXVII CLAIMS FILED BY COUNTY'S CONSTRUCTION CONTRACTOR**

8 A. If claims are filed by COUNTY's construction contractor relating to work performed by CONSULTANT's
9 personnel, and additional information or assistance from CONSULTANT's personnel is required in order to
10 evaluate or defend against such claims; CONSULTANT agrees to make its personnel available for consultation
11 with COUNTY's construction contract administration and legal staff and for testimony, if necessary, at
12 depositions and at trial or arbitration proceedings.

13 B. CONSULTANT's personnel that COUNTY considers essential to assist in defending against construction
14 contractor claims will be made available on reasonable notice from COUNTY. Consultation or testimony will
15 be reimbursed at the same rates, including travel costs that are being paid for CONSULTANT's personnel
16 services under this Agreement.

17 C. Services of CONSULTANT's personnel in connection with COUNTY's construction contractor claims will be
18 performed pursuant to a written contract amendment, if necessary, extending the termination date of this
19 Agreement in order to resolve the construction claims.

20 **ARTICLE XXVIII CONFIDENTIALITY OF DATA**

21 A. All financial, statistical, personal, technical, or other data and information relative to COUNTY's operations,
22 which are designated confidential by COUNTY and made available to CONSULTANT in order to carry out this
23 Agreement, shall be protected by CONSULTANT from unauthorized use and disclosure.

24 B. Permission to disclose information on one occasion, or public hearing held by COUNTY relating to the
25 Agreement, shall not authorize CONSULTANT to further disclose such information, or disseminate the same
26 on any other occasion.

27 C. CONSULTANT shall not comment publicly to the press or any other media regarding the Agreement or
28 COUNTY's actions on the same, except to COUNTY's staff, CONSULTANT's own personnel involved in the
29 performance of this Agreement, at public hearings or in response to questions from a Legislative committee.

1 D. CONSULTANT shall not issue any news release or public relations item of any nature, whatsoever, regarding
2 work performed or to be performed under this Agreement without prior review of the contents thereof by
3 COUNTY, and receipt of COUNTY's written permission.

4 E. Any subcontract entered into as a result of this Agreement shall contain all of the provisions of this Article.

5 F. All information related to the construction estimate is confidential and shall not be disclosed by CONSULTANT
6 to any entity other than COUNTY, Caltrans, and/or FHWA. All of the materials prepared or assembled by
7 CONSULTANT pursuant to the performance of this Agreement are confidential and CONSULTANT agrees that
8 they shall not be made available to any individual or organization without the prior written approval of COUNTY
9 or except by court order. If CONSULTANT or any of its officers, employees, or subcontractors does voluntarily
10 provide information in violation of this Agreement, COUNTY has the right to reimbursement and indemnity from
11 CONSULTANT for any damages caused by CONSULTANT releasing the information, including, but not limited
12 to, COUNTY's attorney's fees and disbursements, including without limitation expert's fees and disbursements.

13 **ARTICLE XXIX NATIONAL LABOR RELATIONS BOARD CERTIFICATION**

14 In accordance with Public Contract Code Section 10296, CONSULTANT hereby states under penalty of perjury
15 that no more than one final unappealable finding of contempt of court by a federal court has been issued against
16 CONSULTANT within the immediately preceding two-year period, because of CONSULTANT's failure to comply
17 with an order of a federal court that orders CONSULTANT to comply with an order of the National Labor Relations
18 Board.

19 **ARTICLE XXX LEGAL COMPLIANCE**

20 CONSULTANT shall comply with all Federal, State and local laws, statutes, ordinances, rules and regulations, and
21 the orders and decrees of any courts or administrative bodies or tribunals currently in effect and in any manner
22 affecting the performance of this Agreement, including, without limitation, workers' compensation laws and licensing
23 and regulations. Failure to comply with the foregoing by CONSULTANT may be grounds for termination by the
24 COUNTY.

25 **ARTICLE XXXI EVALUATION OF CONSULTANT**

26 CONSULTANT's performance will be evaluated by COUNTY. A copy of the evaluation will be sent to
27 CONSULTANT for comments. The evaluation together with the comments shall be retained as part of the
28 Agreement record.

29 **ARTICLE XXXII RETENTION OF FUNDS**

- 1 A. Any subcontract entered into as a result of this Agreement shall contain all of the provisions of this Article.
- 2 B. COUNTY will withhold the last ten percent (10%) of the budget for preparation of the final PS&E documents.
- 3 The ten percent (10%) retainage is to be held after ninety percent (90%) of the PS&E phase has been billed
- 4 and is not to be deducted from each invoice. The amount retained will be paid to CONSULTANT after COUNTY
- 5 has approved CONSULTANT's PS&E documents. The CONSULTANT, or subconsultant, shall return all
- 6 monies withheld in retention from a subconsultant within thirty (30) days after receiving payment. Federal law
- 7 (49 CFR 26.29) requires that any delay or postponement of payment over thirty (30) days may take place only
- 8 for good cause and with the COUNTY's prior written approval. Any violation of this provision shall subject the
- 9 violating CONSULTANT or subconsultant to the penalties, sanctions and other remedies specified in Section
- 10 7108.5 of the Business and Professions Code. These requirements shall not be construed to limit or impair
- 11 any contractual, administrative, or judicial remedies, otherwise available to the CONSULTANT or subconsultant
- 12 in the event of a dispute involving late payment or nonpayment by the CONSULTANT, deficient subconsultant
- 13 performance, or noncompliance by a subconsultant. This provision applies to both DBE and non-DBE prime
- 14 consultant and subconsultants.

15 **ARTICLE XXXIII TITLE VI ASSURANCES**

16 CONSULTANT shall comply with the assurances set forth in Attachment D, Title VI Assurances, as applicable,

17 which is attached hereto and incorporated herein by reference.

18 **ARTICLE XXXIV NOTIFICATION**

19 All notices hereunder and communications regarding interpretation of the terms of this Agreement and changes

20 thereto, shall be effected by the mailing thereof by registered or certified mail, return receipt requested, postage

21 prepaid, and addressed to the CONSULTANT Project Manager and COUNTY Contract Administrator at the

22 respective addresses provided in Article I.B.

23 **ARTICLE XXXV CONTRACT**

24 A. The two parties to this Agreement, who are the before named CONSULTANT and the before named

25 COUNTY, hereby agree that this Agreement constitutes the entire agreement which is made and concluded

26 in triplicate between the two parties. Both of these parties for and in consideration of the payments to be

27 made, conditions mentioned, and work to be performed, each agree to diligently perform in accordance

28 with the terms and conditions of this Agreement as evidenced by the signatures below.

29 B. This Agreement may be executed in any number of counterparts, each of which will be an original, but all

1 of which together will constitute one instrument. Each party to this Agreement agrees to the use of
2 electronic signatures, such as digital signatures that meet the requirements of the California Uniform
3 Electronic Transactions Act (“CUETA”) Cal. Civ. Code §§ 1633.1 to 1633.17), for executing this
4 Agreement. The parties further agree that the electronic signatures of the parties included in this
5 Agreement are intended to authenticate this writing and to have the same force and effect as manual
6 signatures. Electronic signature means an electronic sound, symbol, or process attached to or logically
7 associated with an electronic record and executed or adopted by a person with the intent to sign the
8 electronic record pursuant to the CUETA as amended from time to time. The CUETA authorizes use of an
9 electronic signature for transactions and contracts among parties in California, including a government
10 agency. Digital signature means an electronic identifier, created by computer, intended by the party using
11 it to have the same force and effect as the use of a manual signature, and shall be reasonably relied upon
12 by the parties. For purposes of this section, a digital signature is a type of “electronic signature” as defined
13 in subdivision (i) of Section 1633.2 of the Civil Code.


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15 [SIGNATURE PAGE FOLLOWS]
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ARTICLE XXXVI SIGNATURES

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COUNTY Signatures


RECOMMENDED FOR APPROVAL:

 Dated: 12-22-2023

PATRICIA ROMO
Interim Director of Transportation

CONSULTANT Signatures

CONSULTANT:

 Dated: 12/5/2023

Karen Chapman
Vice President

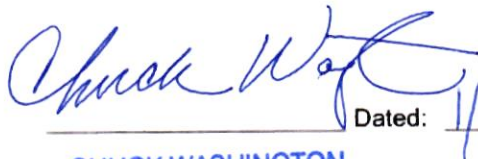
APPROVED AS TO FORM:

County Counsel

 Dated: _____

By Deputy

APPROVAL BY THE BOARD OF SUPERVISORS

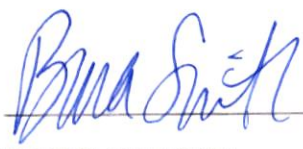
 Dated: 1/9/24

CHUCK WASHINGTON

PRINTED NAME

Chair, Riverside County Board of Supervisors

ATTEST:

 Dated: 1/9/24

KIMBERLY RECTOR

Clerk of the Board (SEAL)

ATTACHMENT A • SCOPE OF SERVICES

TABLE OF CONTENTS

ARTICLE AI • INTRODUCTION	1
A. PROJECT Description	1
B. Location	1
C. Coordination	1
D. Phases	1
E. Standards	2
F. Key Personnel	3
ARTICLE AII • PROJECT ADMINISTRATION	4
A. Project Management	4
B. Budgeting	4
C. Cost Accounting	4
D. Scheduling	4
E. Progress Reporting	5
F. Contract Administration	5
G. Contract Deliverables	5
ARTICLE AIII • PLANNING AND PROJECT DEVELOPMENT	5
A. Research and Data Gathering	5
B. Project Development Team	5
C. Right-of-Entry Coordination	6
D. Design Surveys	6
E. Pre Design Validation and Coordination of Stormwater Management Elements	6
F. Design Drainage Report	
G. Preliminary Foundation Report	9
H. Planning Studies	9
I. Hazardous Waste	9
J. Geometric Approval Drawings	14
K. Foundation & Geotechnical Design Reports	14
L. Right of Way	17
M. Agreements	18
N. Utility Coordination	18
O. Miscellaneous Design Support	26
ARTICLE AIV • STRUCTURES	26

Cajalco Road Widening Segment 1 - Wood Road to Seaton Avenue

A.	Structure Type Selection and Bridge General Plans	26
B.	Geotechnical Coordination and Foundation Report	27
C.	Structural Design and Calculations	27
D.	Independent Check Review and Quality Control	28
E.	Structure Specifications & Estimates	29
F.	Initial Structure PS&E (65% unchecked plans)	29
G.	Intermediate Structure PS&E (90% Checked Plans)	29
H.	Draft Final Structure PS&E (95%)	30
I.	Final Structure PS&E	30
	ARTICLE AV • ROADWAY	31
A.	Basic Roadway Plans	31
B.	Calculations	31
C.	Drainage Plans	31
D.	Traffic Plans	32
E.	Miscellaneous Plans	35
F.	Intermediate Reviews	35
G.	Specifications and Estimate	35
H.	Quality Control	35
I.	Draft PS&E (95% Complete)	35
J.	Final PS&E (100% Complete)	36
	ARTICLE AVI • CONSTRUCTION BIDDING PHASE	36
	ARTICLE AVII • CONSTRUCTION SUPPORT PHASE	38
	ARTICLE AVIII • COMPUTER FACILITIES	39
A.	CALCULATIONS	39
B.	COMPUTER AIDED DRAFTING AND DESIGN (CADD)	39
	ARTICLE AIX • QUALITY CONTROL PLAN	39

ARTICLE AI • INTRODUCTION

A. PROJECT DESCRIPTION

The COUNTY proposes to widen Cajalco Road from one to two lanes in each direction along Cajalco Road between Wood Road and Seaton Avenue as the first Segment of the Cajalco Widening Project to begin PS&E.

The PROJECT will include, but is not limited to, the following construction elements as depicted in the environmental documentation and Mini Request for Proposals (RFP): roadway pavement, curb and gutter, sidewalk, curb ramps, drive approaches, grading, retaining walls, bridge structures, drainage facilities, fence/wall/gate relocations/replacements, traffic signals, pavement markings, signage, and utility relocations. Other improvements may be determined to be required during final design and are not addressed in this scope of work. CONSULTANT will perform engineering work to evaluate and refine the proposed preliminary roadway alignment, typical street sections, and roadway profile developed during the environmental document phase and included in the Draft Environmental Document. An accompanying Engineering Report was not prepared.

B. LOCATION

The PROJECT is located within the Mead Valley Community in unincorporated Western Riverside County. The limits of the Segment I PS&E are along Cajalco Road from Wood Road to Seaton Avenue.

C. COORDINATION

CONSULTANT shall coordinate with other involved agencies for compatible design and phasing of construction with existing conditions. Coordination may include, but will not necessarily be limited to the following:

- Caltrans
- Metropolitan Water District
- Riverside County Transportation Commission
- Native American Tribes
- Riverside County Flood Control and Water Conservation District
- County of Riverside Departments
- Utility Companies

All meetings with other outside agencies will be scheduled by CONSULTANT and with approval of COUNTY.

D. PHASES

The services performed by CONSULTANT will be accomplished in 3 Phases:

Phase II – Plans, Specifications and Estimates (PS&E)

Phase III – Bid Support

Phase IV – Construction Support

Phase II will proceed upon written notice to proceed. The remaining phases will not proceed until authorized in writing by COUNTY.

E. STANDARDS

The plans, specifications and estimate (PS&E) shall be prepared in accordance with the current COUNTY regulations, policies, procedures, manuals and standards including compliance with Federal Highway Administration (FHWA) for bridge design, and COUNTY Road Standards, AASHTO and Greenbook standards may also be utilized. All documents shall be prepared using English standards and dimensions.

Environmental

All environmental work will be performed by COUNTY, including completion of environmental documentation, all environmental approvals; and preparing, applying for and obtaining all environmental permits for construction. CONSULTANT will coordinate with COUNTY and COUNTY'S Environmental team throughout performance of PROJECT.

PS&E

Plans and specifications shall be prepared in conformance with COUNTY requirements. As part of the work involved in the preparation of the PS&E, the CONSULTANT shall prepare and furnish to COUNTY special provisions for items of work included in the plans which are not covered in the COUNTY's Standard Specifications or CALTRANS-approved SSPs.

Bridge plans shall be prepared in accordance with the Bridge Design Details Manual, Bridge Design Memos, Structure Technical Policies and Bridge Memos to Designers, California Department of Transportation, Division of Structures, current editions.

Roadway plans shall be prepared electronically in conformance with the COUNTY'S CADD Manual. Roadway

plans shall be prepared with MicroStation Version V8i. All Roadway plans shall be on single sheet files. Graphic files shall be two-dimensional and shall conform to the COUNTY data format as defined in COUNTY CADD Manual. One set of roadway plans on mylar and one electronic set of roadway plans on compact disc shall be provided with the final PS&E submittal.

Special Provisions shall be prepared using Microsoft Word conforming to COUNTY format and content. CONSULTANT shall coordinate with COUNTY staff regarding procedures for specification and special provision preparation prior to commencing preparation of specifications. COUNTY staff may provide the initial draft of the specifications to be reviewed and modified by CONSULTANT. COUNTY will assemble bid package. Bridge specifications shall be prepared in conformance with the Bridge Design Specifications, California Department of Transportation, Division of Structures, current edition.

Foundation and Geotechnical Design Reports

A preliminary foundation report shall be prepared to support the Advance Planning Study (APS) and Bridge Type Selection. A geotechnical design report shall be prepared for road related work. The foundation and geotechnical design reports shall be prepared in accordance with Caltrans Geotechnical Design guidelines providing recommendations for all design elements during PS&E.

F. KEY PERSONNEL

The CONSULTANT has represented to the COUNTY that certain key personnel will perform the services and if one or more of such personnel should become unavailable, CONSULTANT may substitute other personnel of at least equal competence only after prior written approval by the COUNTY Project Manager has been secured. The key personnel identified for performance of this PROJECT are:

Karen Chapman, Project Manager

Clark Fernon, Principal-in-Charge

Alicia Lemke, Environmental QA/QC

Eric Johnson, Roadway, Specifications & Cost Estimates

Rich Lucera, Drainage, Water Pollution Control, Stormwater Quality, Erosion Control

Dina Kasawdish, Structures/Bridges

ARTICLE AII • PROJECT ADMINISTRATION

A. PROJECT MANAGEMENT

This task includes the day-to-day management of the PROJECT. PDT meetings with the COUNTY Project Manager, the California Department of Transportation staff and other representatives from affected agencies will be held at least once a month during the final design phase. Subconsultants will attend PDT meetings as appropriate. The CONSULTANT shall prepare an agenda and meeting notes, including a milestone schedule and an action item log, for each meeting. Meeting notes will be provided within one week of the meeting.

The CONSULTANT's Project Management Plan will include a communication plan. The communication plan will consist of a roster of staff involved in the PROJECT and multiple forms of contact for each team member (address, telephone number, and e-mail). The communication plan will also identify lines of communication with levels of responsibility/authority for development of the PROJECT.

B. BUDGETING

The CONSULTANT will prepare budgets for each task and milestone for the PROJECT. Such budgets will be entered in to the CONSULTANT's Management Information System along with actual costs incurred and used as a basis for cost monitoring and control.

C. COST ACCOUNTING

The CONSULTANT will prepare monthly reports of expenditures for the PROJECT by task and milestone. Expenditures include direct labor costs, other direct costs and subconsultant costs. These reports will be included as supporting data for invoices presented to the COUNTY every month.

D. SCHEDULING

Within one month from the Notice to Proceed (NTP), the CONSULTANT will provide a detailed PROJECT schedule, which indicates milestones, major activities and deliverables, to the COUNTY for review and comments. This schedule will reflect assumed review times necessary by all of the agencies involved. Review of the schedule will occur at subsequent PDT meetings. Adjustments will be made, if necessary, due to changing circumstances. The Agreement budget is based on a final design schedule of 27 months. An extension of the design schedule may require a change to the Agreement scope and budget.

E. PROGRESS REPORTING

Progress reports shall be prepared in accordance with COUNTY guidelines. Reports will be required monthly and shall be accompanied by an invoice.

F. CONTRACT ADMINISTRATION

The CONSULTANT Project Manager shall maintain ongoing liaison with the COUNTY Project Manager, AGENCY contacts and utility companies to promote effective coordination during the course of PROJECT development.

Progress meetings with CONSULTANT's staff, subconsultants and the COUNTY Project Manager shall be held regularly.

G. CONTRACT DELIVERABLES

Deliverables to the COUNTY are identified and listed under each task in following pages. All deliverables will be provided in electronic format (PDF) as identified in this scope of work.

ARTICLE AIII • PLANNING AND PROJECT DEVELOPMENT

A. RESEARCH AND DATA GATHERING

Photos, reports, maintenance reports, "as-built" plans, study reports, contract documents, utility index maps, local street improvement/development plans and other pertinent data will be obtained and reviewed by CONSULTANT. All topographic mapping, survey, and right of way information will be provided by COUNTY to CONSULTANT.

B. PROJECT DEVELOPMENT TEAM

A Project Development Team (PDT) including representatives from the COUNTY and other relevant agencies shall be established within fifteen days after NTP.

PDT meetings shall be held monthly to resolve issues and to apprise the affected agencies of the progress of the PROJECT. A kickoff meeting with the PDT (PDT Meeting No. 1) shall be held as soon as possible after NTP.

C. RIGHT-OF-ENTRY COORDINATION

CONSULTANT shall identify locations outside the roadway right-of-way where it will be necessary to obtain specific rights-of-entry from affected property owners to conduct investigations required to complete this scope of work. The listing of the candidate locations will be furnished to the COUNTY. The COUNTY will obtain rights-of-entry.

D. DESIGN SURVEYS

COUNTY shall perform all design-level field surveys, ground control, photogrammetric mapping, digital terrain modeling, and design field surveys based on requests from CONSULTANT. CONSULTANT shall not be responsible for schedule delays resulting from need to obtain survey information to complete this scope of services. COUNTY will obtain survey on private properties, including driveways and slopes, that will be sufficient for CONSULTANT to develop tie-in designs. CONSULTANT will review files and data to confirm suitability for final design use. CONSULTANT will not be required to manipulate COUNTY's field data to produce survey deliverables for use on PROJECT.

E. PRE DESIGN VALIDATION AND COORDINATION OF STORMWATER MANAGEMENT ELEMENTS

Prior to commencement of the Design Drainage Report (Article A.III.F) and Drainage Plans (Article A.V.C), a Pre Design Validation study will be conducted to provide focused completion of subsequent stormwater design work. The Pre Design Validation study will build upon analysis completed as part of the "October 2014 Mead Valley MDP Line A Study." The study will consist of:

1. High level peer review of flow rates and flow volumes
2. Assessment of roadway conveyance and extent of flooding in the absence of construction of regional facilities (Mead Valley Line A). Results will be compared against level of protection policy from Riverside County Flood Control and Water Conservation District and the Caltrans Highway Design Manual.
3. Potential for a limited or phased implementation of Mead Valley Line A based upon limitations in right

of way and/or PROJECT funding. This element will include coordination with Riverside County and Riverside County Flood Control and Water Conservation District over the potential to apply alternate/lesser level of protection on an interim basis.

4. Preliminary Layout of drainage pipes, inlets based solely on "on-site" runoff.
5. Preliminary locations and size of stormwater basins and permanent LID measures necessary to mitigate impacts to peak flow and water quality created through additional and replaced impervious surfaces.

F. DESIGN DRAINAGE REPORT

A Design Drainage Report will be prepared to document hydrologic and hydraulic calculations necessary to complete drainage improvement plans. Prior to developing hydrology calculations, a thorough field reconnaissance will be conducted. Available documents pertinent to this Design Drainage Report will be obtained from the COUNTY, and CALTRANS for review. The CONSULTANT's analysis will be closely coordinated with the affected agencies, including the Riverside County Flood Control & Water Conservation District (RCFC & WCD). The Design Drainage Report will quantify the magnitude and frequency of design flows from adjacent areas to the PROJECT area, as well as the volumes attributable to the proposed improvements. It will also include a description of the proposed on-site drainage improvements and any treatment Best Management Practices (BMPs) to be incorporated into the design in order to satisfy agency water pollution control regulations.

- a) Unit Hydrograph Hydrology for Offsite Watershed of approximately 2,560 acres for 2-year, 5-year, 10-year and 100-year storms of 3 hour, 6 hour, and 24 hour durations. HEC HMS Model shall be provided by RCFC & WCD to CONSULTANT for PROJECT use based on prior approved studies. Watershed scale hydrology provided by RCFC & WCD accounts for the ultimate land use for the area, including the PROJECT; therefore updated hydrology is not included.
- b) Long-term or continuous simulation hydrology is considered unwarranted and not included in the proposed scope.
- c) Hydrology for onsite watersheds totaling of approximately 720 acres for 2-year, 5-year, 10-year and

Cajalco Road Widening Segment 1 - Wood Road to Seaton Avenue

100-year storms of 1 hour duration, post PROJECT condition (AES Software)

- d) Hydraulic analysis of roadway gutter flows and inlet location for 10-year and 100-year, post PROJECT condition. (FHWA Hydraulic Toolbox)
- e) Hydraulic analysis of inlet sizing for 10-year and 100-year post PROJECT condition (Bentley FlowMaster)
- f) Hydraulic analysis of roadway drainage pipes for 10-year and 100-year post PROJECT condition (WSPG)
- g) Hydraulic analysis of Mead Valley Line A Box Culvert for 10-year and 100-year post PROJECT condition (WSPG)
- h) Hydraulic analysis of Mead Valley Line A Open Channel for 10-year and 100-year post PROJECT condition (WSPG)
- i) Hydraulic sizing of basins needed to mitigate peak flows for 10-year and 100-year post PROJECT condition (FHWA Hydraulic Toolbox)
- j) Hydraulic sizing of basins needed to mitigate peak flows for 10-year and 100-year post PROJECT condition (HEC HMS)
- k) Steady State 1 Dimensional Hydraulic analysis of "corrected" 100-year pre-PROJECT floodplain (HEC RAS) in a Location Hydraulic Study for the Cajalco Creek Crossing. COUNTY will provide effective model in digital HEC RAS format.
- l) Steady State 1 Dimensional Hydraulic analysis of 100-year post PROJECT floodplain (HEC RAS) in a Location Hydraulic Study for the Cajalco Creek Crossing.
- m) MT-2 Application Material and Exhibits to Support Conditional Letter of Map Revision (FEMA)
- n) 100-year general and local scour computations to support bridge design (using HEC RAS structural design and soil gradation provided by PROJECT geotechnical engineer)
- o) Long term scour computations based upon armoring depth or equilibrium slope using FHWA Hydraulic Toolbox. Sediment transport analysis is excluded from the proposed scope of work.
- p) Conceptual Stormwater Pollution Prevention Plan (CSWPPP)

The drainage design report (items a-p) shall be submitted at 65%, 95%, and 100% (Final). Additional submittals

are not included as part of this scope of work.

G. PRELIMINARY FOUNDATION REPORT

The preliminary foundation report is intended for use in the Advanced Planning Study (APS) and Bridge Type Selection. CONSULTANT shall collect existing subsurface information that is available for the PROJECT area including geological maps published by the California Division of Mines and Geology, and geological maps published by the United States Geological Survey.

CONSULTANT shall review available data and shall provide seismic and geologic information and groundwater data from the preliminary plans and environmental documents. CONSULTANT shall identify any seismic and geologic hazards that will impact the design and construction of this PROJECT. These findings will be documented in the foundation report.

H. PLANNING STUDIES

CONSULTANT shall identify appropriate geometric refinements for development and analysis. The analyses will include costs, constructability, and maintenance of traffic. Preliminary cost estimates will be developed for each alternative as soon as practicable and furnished to the COUNTY. A Project Study Level cost estimate will be developed within two months of the Phase II Notice to Proceed.

I. HAZARDOUS WASTE

Detailed Site Investigation (DSI)

The ISA documents past uses of, and remedial activities for, hazardous substances and petroleum products within the subject properties. These historical uses and activities are identified as recognized environmental conditions (RECs). The ISA identified one property, the former Mobil Baldwin, as a REC and recommended additional investigation to confirm whether or not hazardous substances and petroleum products are present in soil within the PROJECT footprint.

Assumptions: It is assumed that the parcel adjacent to the gas station to the south will include up to four soil borings. In addition, up to four additional borings will be advanced at parcels at each corner of the intersection of Brown Avenue and Cajalco Road (8 borings total). It is assumed that borings will be advanced to groundwater, estimated to be between 10 to 12 feet below ground surface (bgs). Up to three

soil samples per boring will be collected and analyzed plus QA/QC samples (12 samples). Up to four in-situ groundwater samples will be collected from the borings.

Soil and groundwater samples will be analyzed for the following:

- Total Petroleum Hydrocarbons (TPH) – EPA Method 8015M
- Volatile Organic Compounds (VOCs) – EPA Method 8260B

It is assumed that one field personnel will oversee the direct push drilling subcontractor and conduct the soil and groundwater sampling activities.

DSI Work Plan: A work plan will be prepared that will include a description of the work to be performed, including all sampling and laboratory analyses. The work plan will also include a site-specific health and safety plan.

DSI Implementation: Field mobilization activities include marking the proposed subsurface sampling locations, contacting Underground Service Alert (DigAlert), and performing geophysical utility clearance for each boring location.

Field sampling is assumed to be conducted using direct push drilling technology to advance each boring. It is assumed each parcel investigated will take one day, for a total of six 10-hour field days.

DSI Report: A report summarizing field activities, sample results, and interpretation of data will be prepared. The DSI will assess current concentrations in soil and groundwater, provide information to manage further releases from disturbing, moving, or contacting contaminants in soils and groundwater during construction, and provide information that can be used to manage potential health risks for workers that could be exposed to contaminants during construction.

Regulatory Liaison: Five monitoring wells associated with the groundwater monitoring program for Mobil Baldwin are located within the PROJECT footprint and will be impacted by construction activities. CONSULTANT will serve as a regulatory liaison between the RWQCB, well owner, and COUNTY to determine the best practice to protect or replace these wells.

Agricultural Property Assessment.

Several areas associated with current and historical agricultural land uses are present adjacent to the proposed Project alignment. Use of pesticides, including organochloro pesticides and arsenic, are

associated with historical agricultural practices. Land formerly associated with agriculture that has not undergone development since previous agricultural use is considered an area of concern to the Project based on the potential presence of residual concentrations of pesticides.

Assumptions: It is assumed that the parcel adjacent to the gas station to the south will include up to four soil borings. In addition, up to four additional borings will be advanced at parcels at each corner of the intersection of Brown Avenue and Cajalco Road (8 borings total). It is assumed that borings will be advanced to groundwater, estimated to be between 10 to 12 feet below ground surface (bgs). Up to three soil samples per boring will be collected and analyzed plus QA/QC samples (12 samples). Up to four in-situ groundwater samples will be collected from the borings.

Soil and groundwater samples will be analyzed for the following:

- Total Petroleum Hydrocarbons (TPH) – EPA Method 8015M
- Volatile Organic Compounds (VOCs) – EPA Method 8260B

It is assumed that one field personnel will oversee the direct push drilling subcontractor and conduct the soil and groundwater sampling activities.

Phase II Site Investigation Work Plan: A work plan will be prepared that will include a description of the work to be performed, including all sampling and laboratory analyses. The work plan will also include a site-specific health and safety plan.

DSI Implementation: Field mobilization activities include marking the proposed subsurface sampling locations, contacting Underground Service Alert (DigAlert), and performing geophysical utility clearance for each boring location.

Field sampling is assumed to be conducted using direct push drilling technology to advance each boring. It is assumed each parcel investigated will take one day, for a total of six 10-hour field days.

DSI Report: A report summarizing field activities, sample results, and interpretation of data will be prepared. The DSI will assess current concentrations in soil and groundwater, provide information to manage further releases from disturbing, moving, or contacting contaminants in soils and groundwater during construction, and provide information that can be used to manage potential health risks for workers that could be exposed to contaminants during construction.

Regulatory Liaison: Five monitoring wells associated with the groundwater monitoring program for Mobil Baldwin are located within the PROJECT footprint and will be impacted by construction activities. CONSULTANT will serve as a regulatory liaison between the RWQCB, well owner, and COUNTY to determine the best practice to protect or replace these wells.

Agricultural Property Assessment

Several areas associated with current and historical agricultural land uses are present adjacent to the proposed Project alignment. The use of pesticides, including organochloropesticides (OCPs) and arsenic, are associated with historical agricultural practices. Land formerly associated with agriculture that has not undergone development since previous agricultural use is considered an area of concern to the PROJECT based on the potential presence of residual concentrations of pesticides.

Assumptions: Eight agricultural parcels within the PROJECT alignment were identified in the ISA. These properties will be evaluated according to DTSC's Interim Guidance for Sampling Agricultural Properties (Third Revision) (DTSC, 2008). A minimum of four surface soil samples will be collected at each parcel plus QA/QC samples for a maximum of 40 samples.

Agricultural Investigation Work Plan: A work plan will be prepared that will include a description of the work to be performed, including all sampling and laboratory analyses. The work plan will also include a site-specific health and safety plan.

Agricultural Investigation Implementation: Because only surface soil samples are required for this assessment, no geophysical clearance will be necessary.

Soil samples will be analyzed for the following:

- Pesticides – EPA Method 8081
- Arsenic – EPA Method 6020

Agricultural Investigation Report: A report summarizing field activities, sample results, and interpretation of data will be prepared. Detected concentrations will be compared to relevant health-based screening criteria issued by the DTSC and EPA. The report will provide recommendations for remediation, health and safety, or appropriate soil management during construction.

Lead Based Paint in Paint Striping

It is assumed that yellow paint striping will be removed during improvements. Therefore, it is assumed that up to 4 paint samples may be collected and evaluated for lead. It is assumed that the paint sampling will require lane closures and traffic control.

Aerially deposited lead (ADL) assessment has already been completed and is excluded from this scope of work.

This task includes preparation of a work plan, health and safety plan, and technical memorandum summarizing the findings.

Hazardous Materials Survey

Surveys of pole-mounted transformers will be conducted to determine if PCBs are present. Per the ISA, wooden utility poles along the PROJECT alignment are creosote-treated and therefore should be disposed following current DTSC guidance. Therefore, no additional sampling or evaluation of utility poles is included.

Review of the Riverside County Assessor Parcel data indicate that 14 properties identified for acquisition have structures built prior to 1980. Hazardous materials surveys for asbestos and lead based paint will be conducted at these properties. Abatement of asbestos and lead based paint will not be performed as part of the hazardous materials surveys. COUNTY will be responsible for right-of-entry to conduct the surveys.

The following are assumed with respect to the hazardous waste scope elements:

- All soil borings shall be drilled using a direct push drill rig and there is no restriction on time of drilling; traffic control will be required on some of the soil borings.
- No installation of permanent groundwater monitoring wells.
- No drumming and testing of soil cuttings. Soil cuttings shall be used for backfilling boreholes and cold patch asphalt shall be used to cover the borehole at existing traffic lanes.
- CONSULTANT shall secure a no-fee encroachment permit from Riverside County; any other permit(s) if required shall be secured by COUNTY.

J. GEOMETRIC APPROVAL DRAWINGS

Geometric drawings of the preferred alternative included in the RFP shall be prepared in accordance with COUNTY GAD requirements. It is assumed that only the selected alternative will be refined to the level of Geometric Approval Drawings (GAD). These will include plans, typical cross sections, profiles and

superelevation diagrams. The GAD will include appropriate signature blocks and traffic volume data shown on large sheets to clearly present the overall geometric design rather than on 11" x 17" sheet breakouts with matchlines.

The drawings will utilize COUNTY standards and criteria for local facilities. Any nonstandard design elements will be documented in a Design Exception memorandum. Items to consider during GAD efforts include evaluating alignment shifts to avoid electrical pole impact and confirmation of work limits on side streets. Additionally, preliminary grading design will be completed if sufficient digital terrain model information is available at the start of the GAD effort, to determine the potential need for retaining walls at spot locations and the potential size of temporary construction easements and impacts to driveways. At the conclusion of the GAD effort, it is possible that amendments to this scope of work and the associated Agreement fee estimate will be needed to address unforeseen changes to the design.

K. FOUNDATION & GEOTECHNICAL DESIGN REPORTS

Geotechnical Investigations

The geotechnical investigations will document observations of subsurface conditions and collect soil samples for laboratory testing. Per Caltrans/AASHTO recommendations, a soil boring is required at every support of new bridge structures, every 100 to 200 feet for new retaining walls and box culverts, and approximately every 500 ft for new pavement sections. For new infiltration/detention basins, two infiltration tests is required for every new basin under 10,000 square feet in plan dimension. The boreholes will be excavated using a truck-mounted or track-mounted drilling rig. The proposed approximate boring depths will be raised if refusal is encountered. Asphalt concrete cold-patch will be used to replace asphalt that is removed by excavations, and quick-set cement will be used to replace concrete that is removed by excavations.

Table 1. Proposed Soil Boring Information

Design Element	Number of Borings	Approximate Depth (feet)
Cajalco Creek Bridge	3	40
Cajalco Creek RCB Replace	2	25
Brown St Basin	2	5
Haines St Basin	2	5
RCB / Open Channel(s)	25	25
Earthwork / Pavement	5	10 / Bulk Sample

A boring location plan will be prepared and will be used to secure encroachment permit from the County of

Riverside. It is assumed that any environmental clearance or studies, including archaeological, cultural, and biological reviews or studies, required for the geotechnical investigations will be provided by COUNTY. A field investigation schedule will be prepared to assist in the coordination of any necessary monitoring during the geotechnical investigation.

Soil samples will be collected for laboratory testing, including bulk samples of near-surface soils and small disturbed and relatively undisturbed ring samples of deeper soils. The small disturbed and relatively undisturbed soil samples will be collected using split-spoon samplers at a vertical interval of about 5 feet, alternating between the Standard Penetration Test (SPT) sampler and the Modified California Drive (MCD) sampler. Samples of subsurface soils will be logged during the field investigation, secured in their containers or collected in plastic bags, and transported to a laboratory.

Two infiltration test wells will be excavated at each potential infiltration basin location with a 5-inch diameter hand auger. The test wells will be excavated to 6 ft below existing grade. The wells will be backfilled with loosely placed commercial pea gravel with a maximum size ($\frac{3}{4}$ -inch) to a depth of approximately 9" below grade. At each well, up to about 30 gallons of imported clean water will be introduced into the well to pre-saturate the gravel and surrounding soil in the vadose zone prior to conducting the well tests. The depth to groundwater will be determined from the nearby geotechnical borings already being conducted for structure and roadway improvements.

Constant-head, in-hole permeability tests will be conducted in each test well in general accordance with U.S. Bureau of Reclamation (USBR) method 7300-89 (1990). A float device fitted with a needle valve will be set on the gravel and attached to a 55-gallon water storage drum by a $\frac{1}{2}$ -inch diameter feed line. Water will be placed in each well and the flow quantities will be monitored over a period of up to four hours. The incremental flow rates will be plotted over time to determine that the rate of infiltration had stabilized.

Laboratory Testing

Field logs of the boreholes will be reviewed to select representative soil samples for laboratory testing. Various laboratory tests will be performed on soil samples to determine or derive their physical and engineering characteristics. Anticipated laboratory tests include: in-situ density and moisture content, grain size, Atterberg Limits, direct shear, R-value, maximum density and optimum moisture content, and soil corrosion tests.

Laboratory tests will be conducted in general accordance with American Society for Testing and Materials (ASTM) standards or California Test methods.

Geotechnical Engineering Analyses

Results obtained from the field investigation and laboratory testing will be used to characterize subsurface soils and conditions and create idealized soil profiles for design purpose. The following analyses will be performed for the PROJECT:

- Evaluation of potential geologic hazards that might affect proposed improvements.
- Evaluation of seismicity and estimation of Peak Ground Acceleration based on the Caltrans design criteria, and recommendation of ARS curve for retaining wall and bridge structural design.
- Development of earth pressure recommendations for retaining walls.
- Foundation analysis for bridge, culverts, and retaining walls.
- Assessment of global slope stability for permanent cut/fill slopes in excess of 5 ft.
- Evaluation of stormwater infiltration rates for design of new infiltration/detention basins.
- Evaluation of soil corrosivity conditions and recommendations for mitigation measures.
- Design of pavement structural section in accordance with Caltrans methodology.

Report Preparation

A geotechnical design report and a foundation report will be prepared with the appropriate geologic evaluation and geotechnical design and construction recommendations consistent with the requirements of Caltrans guidelines for Foundation Reports for Bridges, Foundation Reports for Earth Retaining Structures, Geotechnical Design Reports and Materials Reports. CONSULTANT will prepare a stand-alone foundation report for the proposed bridge. CONSULTANT will prepare a separate Geotechnical Design Report that will provide design and construction recommendations for all other PROJECT improvements that are included in the PROJECT. Relevant sections will be added for retaining walls and structural pavement sections consistent with Caltrans reporting guidelines.

Borings performed for the bridge and retaining walls will be presented on Log-Of-Test-Borings (LOTB) sheets while 8.5" x 11" boring logs will be prepared for all other borings and included in the respective reports. The

reports will include recommendations for bridge foundations, retaining walls, drainage structures, permanent slopes, infiltration basins, earthwork, and pavement structural sections. EMI will address any comments resulting from the County of Riverside review and prepare final reports and LOTB's.

The following are assumed with respect to the geotechnical scope of work:

1. Geotechnical Investigation is allowed between 8 AM and 6 PM on weekdays. Night work will not be required for the geotechnical investigation.
2. Environmental clearance for accomplishing the field work will be completed by COUNTY.
3. An aerially deposited lead (ADL) report has already been prepared for the PROJECT and no additional ADL testing is required for the PROJECT.
4. No fee permit is assumed for the County of Riverside encroachment permit or any other permits.
5. Well permits are not required.
6. Pavement rehabilitation testing/recommendations for existing pavements are not included.
7. Potential retaining wall locations are currently unknown; cost estimate assumes all walls are 10 ft in design height or less and less than 100 ft in length (1 boring per retaining wall, up to 10 wall locations).

L. RIGHT OF WAY

All right of way requirements map preparation will follow COUNTY procedures. The CONSULTANT shall coordinate with the COUNTY SURVEYOR to ensure that all requirements are followed.

The COUNTY SURVEYOR will perform cadastral research and perform field and office surveys to identify existing centerlines, rights of way and parcel data. Preliminary title reports will also be obtained by COUNTY SURVEYOR to identify road, drainage and other easements and encumbrances for the affected parcels along the proposed alignment. A land net base map and record of survey will be prepared by COUNTY SURVEYOR. The CONSULTANT will prepare a Right of Way Requirements Map and update the map as changes occur through the design of the PROJECT, up to two submissions. CONSULTANT shall submit electronic copies of preliminary right of way requirement maps to the COUNTY for review and comment. The CONSULTANT will work with the COUNTY SURVEYOR to develop the Right of Way Requirements Map to the satisfaction of the

COUNTY SURVEYOR.

The COUNTY SURVEYOR will prepare the Legal Descriptions and Plats, Appraisal Maps, Right of Way Maps, and all other necessary documents and will perform all coordination to acquire the necessary right of way for the procurement of all easements, temporary and permanent real property. The COUNTY will be responsible for the completion of all land acquisition activities.

M. AGREEMENTS

The CONSULTANT will provide technical support to the COUNTY as required for COUNTY to obtain cooperative agreements.

N. UTILITY COORDINATION

The intent of the COUNTY is that the services of the CONSULTANT shall be complete and “turn-key” with respect to all utility coordination matters, including complete coordination for the protection or relocation of existing facilities as described herein, as well as the coordination, preparation of applications, and all other matters pertaining to the relocation and installation of water and electric services, except for those procedures that must be performed by COUNTY.

CONSULTANT shall designate dedicated staff who shall be responsible for all coordination work related to utilities for PROJECT, including but not limited to relocations of existing trunk and mainline facilities, installation of new trunk and mainline facilities, relocation of existing electric and water services, and installation of new electric and water services.

CONSULTANT shall coordinate with utility owners and COUNTY utility coordination staff with respect to all utility related matters. CONSULTANT shall provide copies of all correspondence with utility companies and other utility related information to the COUNTY. Correspondence, as described herein, shall be prepared by CONSULTANT for either CONSULTANT or COUNTY signature, as appropriate, or as directed by the COUNTY Project Manager.

CONSULTANT shall coordinate with COUNTY staff to obtain record copies of utility maps from each utility owner within the PROJECT limits for existing and/or proposed utility facilities. CONSULTANT shall include mapping and/or exhibits that clearly define the PROJECT limits as part of the requests for utility information.

CONSULTANT shall identify utility companies affected by the PROJECT and delineate utilities within the

PROJECT's sphere of influence on the plans. CONSULTANT shall prepare preliminary plans, which shall include all existing utilities (above ground and below ground) identified by location, size, type, and owner, as appropriate. CONSULTANT shall check horizontal and vertical clearances for utilities and coordinate design with the various utility companies to address conflicts. In addition to information provided by the utility owner and through research of other record maps, field surveys shall be conducted by COUNTY SURVEYOR to locate utility facilities such as manholes, valves, fire hydrants, poles, risers, etc., which shall be reflected on the plans.

If it is deemed necessary to pothole existing utilities at critical locations, CONSULTANT shall coordinate with COUNTY staff to arrange with the respective utility owner to pothole its facility (at utility owner or COUNTY cost). CONSULTANT shall coordinate the use of COUNTY field survey crews to locate potholed utilities by coordinates and elevations based on the PROJECT's survey controls.

Known utility conflicts shall be shown on the plans with construction notes indicating action to be taken and by whom. Inventory numbers of poles, vaults and other surface facilities shall be shown on the plans for those facilities that have such numbers attached to the facility and as provided on the owner's inventory maps.

CONSULTANT shall send preliminary design plans through COUNTY staff to utility owners within the PROJECT limits with requests for review and comments on the plans relevant to their respective facilities, and with requests for other PROJECT specific information.

CONSULTANT shall monitor responses of utility notices received and make recommendations for mitigating conflicts. CONSULTANT shall provide written responses to utility companies with regard to stated concerns and conduct design coordination meetings with utility companies as needed. Unresolved issues shall be brought to the attention of the COUNTY Project Manager and COUNTY utility coordination staff as early as practical. Utility conflict issues shall be resolved prior to the completion of the final design plans as follows:

- CONSULTANT, through COUNTY staff, shall request and obtain a written acknowledgement of any conflicts from the respective utility owners.
- Reasonable efforts shall be taken to accommodate utility company requests for minor design changes to accommodate their facilities. CONSULTANT understands that the utility companies are generally operating within the COUNTY right-of-way, but may have prior rights to that of the COUNTY in some cases.

- CONSULTANT shall coordinate inclusion of special provisions in COUNTY bid documents for adjustments and relocations of utility facilities as alternate bid items, if requested by the utility owner. Said work may require that cooperative agreements be prepared by COUNTY between the County of Riverside and the utility owner. CONSULTANT shall provide information and exhibits as required to support the COUNTY's preparation of cooperative agreements, if needed.

CONSULTANT shall conduct utility coordination meetings, as needed, regarding adjustments and relocations, to resolve conflict issues, and with respect to performing work for utility companies by COUNTY contractors.

For utility conflicts that require relocating, COUNTY staff will prepare and submit the official notice / order to the utility companies to relocate conflicting facilities.

CONSULTANT shall make recommendations for special provision language with regard to utility issues, recommendations for construction windows of time for utility relocation activities that are concurrent with construction and recommendations for inclusion of utility bid items.

If new water service is needed, CONSULTANT shall provide support as directed by COUNTY. Such support includes, but is not limited to, the following responsibilities:

- Obtain approved water service point of connection from the servicing water company for each water meter to be installed, and identify requirements that the servicing water company has for the provision of service. Coordinate with water company with respect to design issues associated with the provision of service. Coordinate with serving water company to fulfill serving water company requirements as appropriate, including preparation of all utility company forms and submission to COUNTY for execution. Advise COUNTY of requirements that are beyond the scope of the CONSULTANT (e.g.: execution of applications for service). However, CONSULTANT is expected to provide turn-key service.

EMWD is in the process of evaluating changes to their facilities in the PROJECT limits. CONSULTANT will provide technical PROJECT information to EMWD for coordination purposes. No special designs are included to accommodate EMWD's facilities. Revisions to the Agreement scope and budget may be necessary if special designs are required.

If new electrical service will be needed, CONSULTANT shall provide support as directed by COUNTY. Such

support includes, but is not limited to, the following responsibilities:

- Obtain approved electrical service point of connection from the servicing electric company for each service equipment enclosure to be installed, and identify requirements that the servicing electric company has for the provision of service. Coordinate with servicing electric company with respect to design issues associated with the provision of service. Coordinate with servicing electric company to fulfill servicing electric company requirements as appropriate, including preparation of all utility company forms and submission to COUNTY for execution. Advise COUNTY of requirements that are beyond the scope of the CONSULTANT (e.g.: execution of applications for service). However, CONSULTANT is expected to provide turn-key service.
- Servicing electric company shall be notified that Electrical Safety Orders clearance requirements must be met (10' radial clearance between 12kv overhead electrical facilities and signal poles and mast arms, and greater clearance for higher voltage electrical facilities). Show such clearance conflicts on the plans with construction notes.
- Submit plans indicating proposed service connection locations to servicing electric company for approval (service equipment enclosure, conduit runs, riser quadrant, pole number, and connections to vaults as appropriate).
- Provide detailed load calculations to servicing electric company, with a copy to the COUNTY, which provides calculations of the normal and maximum expected loads.

Potholing of both high and low risk utilities, including all utilities that could be in conflict with the improvements, shall be anticipated by the CONSULTANT. The CONSULTANT shall prepare potholing exhibits as needed to adequately locate underground utilities, shall enter into a contract with a licensed contractor for the potholing of utilities, and shall ensure that appropriate permits are obtained from the respective jurisdictions prior to the start of work.

The contract between the CONSULTANT and the potholing contractor shall require that the contractor's insurance policies name the CONSULTANT, the County of Riverside, and any other affected jurisdictions as additionally insured with respect to the contractor's general liability, excess liability and automobile liability policy. The contractor shall meet the insurance requirements, as set forth elsewhere in this Agreement, except

that the contractor will not be required to provide professional liability coverage. Review and approval of the contractor's insurance certificate and endorsements by the COUNTY's representative shall be obtained prior to the start of potholing work.

The CONSULTANT shall evaluate the potholing data, and shall include the information on the utility plans in table format, with numbered or letter references to the location or station of the potholes. The CONSULTANT shall determine whether or not the facilities are in conflict, and the limits of the conflict, both of which shall be shown on the utility plans with construction notes.

CONSULTANT shall assist with the resolution of utility related issues that may arise during the bidding process and during construction, including design modifications as needed and as approved by the COUNTY Project Manager.

Specifically, CONSULTANT will perform the following utility tasks:

Utility Coordination

Most utility impacts are expected to be along the north side of the road between Wood Road and Seaton Avenue. The most notable utility facilities are 38 Southern California Edison Transmission poles along with the 3rd party utilities attached to the poles. The 3rd parties include AT&T, Frontier, Lumen (formerly Level 3 communication), Verizon Business (formerly MCI), and Spectrum. Also running parallel to Cajalco Road are an estimated 22 Southern California Edison Distribution poles with 3rd party facilities that could potentially be impacted. Toward the east side of the PROJECT, there are 8 telephone-only poles that may need to be relocated. Level 3 has underground facilities running parallel on the south side of the PROJECT.

Sixteen utility owners have been identified by DigAlert as possibly having facilities present in the PROJECT area:

- AT&T Distribution
- AT&T Transmission
- Eastern Municipal Water District
- Frontier Communication
- Lumen (formerly Level 3 Communication)
- Verizon Business (formerly MCI)

- Metropolitan Water District
- Southern California Edison – Distribution
- Southern California Edison – Telecom
- Southern California Edison – Transmission
- Southern California Gas – Distribution
- Spectrum
- Western Municipal Water District

CONSULTANT will:

- Act as the primary point of contact with the utility owners identified on the utility plans.
- Schedule and chair utility focus meetings.
- Prepare the Introductory Request for as-builts notices and obtain all existing utility information, including identification of high-risk utilities (high pressure gas, high voltage, etc.) from the COUNTY, utility companies, and agencies that may be impacted by the PROJECT.
- Review and verify with the design team which facilities are considered in conflict.
- Coordinate with the design team with the preparation of the conflict matrix and conflict exhibits needed for each utility company whose facilities are in conflict.
- Meeting with utility companies and other entities to determine their requirements for relocation, protection, and abandonment requirements of utilities required to accommodate the PROJECT and to establish any potential ROW acquisition or easement requirements for utility relocations.
- Prepare and send the Relocation Claim Letter to utility owners who have facilities in conflict.
- Determine liability for the conflict facilities impacting the PROJECT.
- Obtain detailed relocation plans from utility owners.
- Prepare notices to owners, Utility Agreements, Reports of Investigation, Encroachment Permits and all other applicable documents.
- Coordinating the relocation of utilities that the COUNTY directs to be done prior to PROJECT's construction and during PROJECT's construction.

Prior to construction, CONSULTANT will coordinate with utility companies to ensure the relocations are done

to meet the PROJECT's schedule.

Assumptions:

- It is expected that there will be no charge by utility companies for as-built plans or special processing; however, if there are charges by utility companies, the COUNTY will directly pay utility companies.
- Assumes 140 utility facilities will be in conflict. Preparation of Notices to Owners to coincide with 140 facilities in conflict. The Agreement budget assumes up to 60 potholes will be completed.
- Assumes 3 utility agreement will be needed.
- Assumes that the design for new and relocated utilities will be performed by the respective utility owners.
- Assumes all utility services meters are acquisition costs and not public utilities, and utility companies will replace the new service to their requirements.
- Assumes no utility easements are required.
- COUNTY will pay utility companies directly for all fees associated with relocation, construction management, and inspection.

Utility Potholing

CONSULTANT will coordinate the potholing services to determine horizontal and vertical locations of underground utility facilities in accordance with COUNTY procedures. COUNTY is aware that additional potholes could be required due to unforeseen circumstances and this could require a Agreement amendment to add budget to cover additional potholes. CONSULTANT will provide coordination and oversight of positive location of the utility facilities. If the utility owner is conducting the required positive location, CONSULTANT will provide required notice to the utility owner and assist in getting any required permits.

Assumptions:

- Pothole costs include permit fees, standard traffic control and management, mobilization costs and required equipment and crew for pothole subcontractor.

Cajalco Road Widening Segment 1 - Wood Road to Seaton Avenue

- Assumes one mobilization for potholing.
- Assumes no complex traffic control and traffic calming devices beyond the use of arrow boards, traffic cones and advanced warning signage.
- Assumes no removal of location and/or USA markings
- Assumes no special backfill and/or asphalt restoration required, including hot patch asphalt, half-sack slurry, or aggregate base backfill.
- Assumes no ground penetrating radar services required.

O. MISCELLANEOUS DESIGN SUPPORT

Design Exceptions

If design exceptions are deemed necessary, these will be identified early in the PROJECT and the CONSULTANT will coordinate with COUNTY to receive approval as a part of the GAD approval.

Traffic Management Plan

The CONSULTANT shall prepare and submit a Traffic Management Plan for COUNTY review and approval.

Retaining Wall Design

CONSULTANT has included an allowance in the Agreement budget for 10 retaining wall sheets as the locations heights, and types of retaining walls are not currently known or defined. A revision to the Agreement scope and budget may be required once these details are known.

Environmental Coordination

Portions of the PROJECT are environmentally and culturally sensitive. The COUNTY will be acting as the lead agency and will be continuing extensive coordination with local tribes, MWD, Flood Control, and other agencies during Segment I Final Design. CONSULTANT will coordinate with COUNTY's Cajalco Road Widening Project environmental consultants to provide consistency between CONSULTANT's final design and the PROJECT's environmental documentation. COUNTY agrees to keep CONSULTANT apprised of changes and information that could impact final design.

ARTICLE AIV • STRUCTURES

The design services listed below will be performed for the following structures:

- Cajalco Creek Bridge
- Cajalco Creek Box Culvert Replacement

Any additional nonstandard structures design elements may require an amendment to this scope and the associated fee estimate.

A. STRUCTURE TYPE SELECTION AND BRIDGE GENERAL PLANS

The culmination of preliminary design work will lead to the submittal and presentation for review and approval of a General Plan for the proposed structures. This process will be considered the "Structure Type Selection"

process and no further design work shall be performed until written approval of the structure types is received from COUNTY. A Type Selection Review Meeting will be held with the COUNTY in which the CONSULTANT shall be prepared to discuss and provide information on foundation requirements, hydrological requirements, falsework requirements, seismic and aesthetic considerations, traffic handling, construction cost and other pertinent information that is needed to determine the proper structure types.

A PDF copy of the Type Selection Report, including Type Selection Memos, a Vicinity Map, proposed General Plans, and General Plan Estimates, shall be submitted for review two weeks prior to the Structure Type Selection Review Meeting. The results of the meeting will be summarized in writing by the CONSULTANT within two weeks following the meeting.

Within two weeks after receiving written approval of the proposed General Plans and structures type, the CONSULTANT shall furnish the COUNTY with a PDF copy of the approved General Plans.

Deliverables: Type Selection Report for Cajalco Creek Bridge

Type Selection Report for Cajalco Creek Box Culvert Replacement

Type Selection Meeting Minutes

Approved General Plans

B. GEOTECHNICAL COORDINATION AND FOUNDATION REPORT

Foundation design and construction recommendations shall be included in the geotechnical report as described in Article AIII, Item "K".

C. STRUCTURAL DESIGN AND CALCULATIONS

Following the Type Selection Meeting and approval of the General Plans, structural design calculations shall be prepared in conformance with Caltrans design specifications and procedures. All plans and calculations shall conform to current CALTRANS requirements and shall be made available for review upon request.

Bridge Plans and calculations shall be prepared in accordance with the Bridge Design Details Manual, Bridge Design Memos Manual, Structure Technical Policies, Caltrans Seismic Design Criteria and Bridge Memos to Designers.

The scope of this work shall include to the following plan sheets:

- Cajalco Creek Bridge:

- General Plan
- General Notes- Index to Plans
- Deck Contours
- Foundation Plan
- Abutments Layout
- Abutment Details
- Bent Layout
- Bent Details
- Typical Section
- Girder Layout
- Prestressing Notes
- Girder Details and Camber Diagrams
- Utility Details
- Deck Drainage Details
- Slope Paving
- Cajalco Creek Box Culvert Replacement:
 - General Plan
 - General Notes- Index to Plans
 - Foundation Plan
 - Box Culvert Details

D. INDEPENDENT CHECK REVIEW AND QUALITY CONTROL

An Independent Check review shall be conducted as soon as the initial design is complete. Checking shall include the preparation of an independent set of structural design check calculations and review of the plans and details. The checker and the designer will resolve any disagreements and concur on any revisions to the Agreement plans.

E. STRUCTURE SPECIFICATIONS & ESTIMATES

Special Provisions shall be prepared for items not covered by the CALTRANS Standard Specifications or

Standard Special Provisions (SSP's). The CONSULTANT shall edit Standard Special Provisions (SSPs) and prepare Structure Special Provisions specific to this PROJECT which will be incorporated into the final PS&E. These Structure Special Provisions shall be prepared, signed and stamped by a Professional Engineer registered in the State of California.

The CONSULTANT shall prepare quantity calculations for bid items and prepare the bridge cost estimate. All Agreement items used shall be substantiated by calculations. All quantity calculations shall be independently checked and substantiated with calculations.

The Construction Cost Estimate shall be prepared using the latest available Caltrans cost data, COUNTY cost data and actual recent construction costs in the PROJECT area.

F. INITIAL STRUCTURE PS&E (65% UNCHECKED PLANS)

The Initial (65% Unchecked Plans) structure PS&E shall be compiled and submitted for review to the COUNTY and Caltrans. These documents will be submitted to the COUNTY in electronic "pdf" format.

Deliverables: 65% Bridge Plans

65% Box Culvert Replacement Plans

65% Structures Cost Estimate

65% Structures Specifications Item List

G. INTERMEDIATE STRUCTURE PS&E (90% CHECKED PLANS)

The Intermediate (90% Checked Plans) structure PS&E shall be compiled and submitted for review to the COUNTY and Caltrans. These documents will be submitted to the COUNTY in electronic "pdf" format.

Deliverables: 90% Bridge Plans

90% Box Culver Replacement Plans

90% Quantities and Structures Cost Estimate

90% Structures Specifications

Structure Design Calculations

Structure Independent Check Calculations

Response to Agency Comments (Comment/ Response Logs)

H. DRAFT FINAL STRUCTURE PS&E (95%)

The Draft Final (95%) structure PS&E shall be compiled and submitted for review to the COUNTY and Caltrans.

These documents will be submitted to the COUNTY in electronic "pdf" format.

Deliverables: 95% Bridge Plans

95% Box Culvert Replacement Plans

95% Structures Cost Estimate

95% Structures Specifications

Response to Agency Comments (Comment/ Response Logs)

I. FINAL STRUCTURE PS&E

The Final structure PS&E shall incorporate review comments from the COUNTY, Caltrans and other affected agencies. The CONSULTANT shall provide all necessary documents, stamped and signed, in a bid-ready form. COUNTY shall advertise, award and administer the construction contract for this PROJECT.

The CONSULTANT shall deliver the following documents to COUNTY and Caltrans:

Deliverables: 1 set of final bridge plans

1 set of final box culvert replacement plans

1 set of final Structure Special Provisions

1 copy of final quantity calculations and estimate

1 copy of final design calculations

1 copy of design check calculations (upon request)

1 copy comment / Response Logs for closing all review comments

1 copy of bridge full-scale plans in accordance with Memo to Designers 2-2

2 Resident Engineer's Files (structures information)

ARTICLE AV • ROADWAY

The title sheet for specifications and reports, and each sheet of plans, shall bear the professional seal, certificate number, registration classification, expiration date of the certificate and signature of the Professional Engineer responsible for their preparation. All roadway plans shall also use single sheet files.

The following is a summary listing of drawing types that shall be prepared as part of the roadway PS&E:

A. BASIC ROADWAY PLANS

- Title Sheet
- Typical Cross Sections
- Street Improvement Plans
- Profile & Superelevation Plans
- Construction Details
- Contour Grading Plans

Landscaping/Irrigation design is excluded from this scope of work. If it is determined that impacts to existing landscaping or irrigation will occur as part of the PROJECT design, the Agreement scope and budget will be amended to address the necessary replacement landscape and/or irrigation design. No new landscaping or irrigation is proposed as part of the PROJECT.

B. CALCULATIONS

The following calculations shall be provided:

- Grid Grades
- Profile
- Earthwork Quantities
- Other Quantities

Files and procedures required for Automated Machine Guidance are not included in this scope. These may be added to the scope and budget at a future date once more precise information is available about the PROJECT and the COUNTY's standards for Automated Machine Guidance are defined.

C. DRAINAGE PLANS

CONSULTANT shall perform hydrology and hydraulic studies to obtain and provide design solutions, which will remove surface runoff from the area of the improvements. A description of supporting drainage and water quality analysis for the PROJECT is provided under Article AIII Section F of the PROJECT scope (Design Drainage Report). For the 65% and 95% completion level, the following roadway drainage related drawings shall be developed:

- Storm Drain Plans (Roadway) (estimated 29 sheets)

- Channel and Box Culvert Plans Mead Valley Line A (estimated 7 sheets at 1"=40')
- Storm Drain Profiles - Roadway (estimated 36 sheets)
- Channel and Box Culvert Profiles Mead Valley Line A (estimated 7 sheets at 1"=40')
- Detail Sheets Roadway Storm Drain (5 estimated sheets)
- Detail Sheets Channel and Box Culvert Mead Valley Line A (5 estimated sheets)
- Permanent Stormwater BMP Layout Plans (8 estimated sheets)
- Permanent Stormwater BMP Detail Plans (4 estimated sheets)
- Erosion Control Plans (estimated 29 sheets)
- Erosion Control Detail Sheets (6 sheets estimated)

This task includes development of technical specifications directly related drainage and water quality based upon Riverside County standard and special provisions.

Drainage plans shall be submitted as part of the 65%, 95%, and 100% (Final) submittal milestones. Additional submittals are not included as part of this scope of work.

Plan sheet content is assumed based upon prior experience with similar projects. The sheet count is estimated based upon the best current information regarding the nature and extent of required drainage and water quality improvements. Plan sheets more than this estimate, if required, shall be considered additional work, requiring written authorization and increase to the PROJECT budget.

D. TRAFFIC PLANS

The following list of drawing types and the number of sheets estimated shall include:

- Stage Construction and Traffic Handling
- Striping and Signing Plans
- Signal Plan
- Street Lighting Plans

The CONSULTANT shall prepare Street Lighting Plans from approximate Station 680+00 to approximate Station 900+00 (22,000') for review by the COUNTY. The plans will identify the location of the proposed street light pole locations per the Riverside County Road Improvement Standards and Specifications. Street

lights shall be installed at all intersections and at a minimum each 200 lineal feet of roadway, plus or minus 20 feet, in alternating staggered fashion.

The PROJECT is beyond 30 miles from Mount Palomar Observatory, therefore high pressure sodium lights (or LED equivalent) will be proposed.

Temporary Street Lighting plans will be prepared to maintain the existing lighting along Cajalco Road during construction.

The CONSULTANT shall coordinate with Southern California Edison (SCE) or appropriate utility company for electrical service and assist in the preparation of required forms and be provided to be used by the utility company to prepare their electrical service plans.

Traffic Signal Plans

The CONSULTANT shall prepare Traffic Signal plans per the current CALTRANS Standard Plans and Specifications and California Manual of Uniform Traffic Control Devices (CA MUTCD) for review by the COUNTY.

The proposed traffic signal design will be based on Cajalco Road widened to a four-lane roadway. The design will consider future widening and geometric improvements beyond this PROJECT. Traffic signal plans will be prepared for the following locations:

1. Cajalco Road and Wood Road (Mod)
2. Cajalco Road and Carpinus Drive (New)
3. Cajalco Road and Alexander Street (Mod)
4. Cajalco Road and Brown Street (Mod)
5. Cajalco Road and Clark Street (Mod)
6. Cajalco Road and Day Street (Mod)
7. Cajalco Road and Seaton (Mod)

The CONSULTANT shall prepare separate Signal interconnect Plans to provide communication between the above-listed signalized intersections. Signals will be interconnected using wireless radio technology

currently in use along Cajalco Road.

The CONSULTANT shall review existing Traffic Studies and prepare a traffic analysis using available traffic data volumes to determine the traffic signal phasing for the modified and new signalized intersections.

The CONSULTANT shall prepare Temporary Traffic Signal Plans for existing signalized intersections to maintain the traffic signal operations during construction. Up to three construction stages are anticipated for each existing signalized intersection.

The CONSULTANT shall review the GAD geometry and coordinate with the team to ensure that traffic signal equipment can be placed within the proposed right-of-way and meet ADA requirements.

The CONSULTANT shall prepare AM, MD, PM and Weekend signal coordination plans from Wood Road to I-215 NB Ramps based on the available traffic volume data and latest signal timing plans. The CONSULTANT will assist the COUNTY staff in the field to fine tune the coordination plans.

Street Lighting and Traffic Signal Plan Assumptions:

1. The intersection of Cajalco Road and Wood Road will be widened to accommodate the proposed 4-lane roadway geometrics. Tapering of Cajalco Road to existing conditions will begin west of Wood Road.
2. No traffic signal modification required at Cajalco Road and Harvill Road.
3. No decorative light standards or fixtures will be proposed on the PROJECT.
4. Traffic data collection and traffic analysis are excluded.
5. COUNTY staff to modify the controller signal timing based on CONSULTANT recommendations to fine tune the signal coordination.

E. MISCELLANEOUS PLANS

- Utility Conflict Composite Plan
- Right of Way Requirements

F. INTERMEDIATE REVIEWS

Roadway, drainage, traffic and miscellaneous plans shall be submitted for review to the COUNTY at the 65%, 95% and 100% complete stage. A pre-65% submittal shall be prepared and submitted that consists of "skeletal" layouts at approximately 30% completion to confirm appropriate direction of the designs and plan set. The CONSULTANT shall submit the intermediate plans electronic "pdf" format to the COUNTY for review. Roadway

cross sections, and grid grades shall be submitted following the 100% complete submittal stage.

G. SPECIFICATIONS AND ESTIMATE

Specifications and Special Provisions shall be prepared for items not covered by the COUNTY's Standard Specifications or Standard Special Provisions and submitted to COUNTY in electronic "pdf" format for intermediate reviews.

The Roadway Construction Cost Estimate shall be prepared using the latest available Caltrans cost data, COUNTY cost data and actual recent construction costs in the PROJECT area. The cost estimates will be submitted to the COUNTY in electronic .pdf format for intermediate reviews.

H. QUALITY CONTROL

The Plans, Specifications and Estimate (PS&E) shall be subject to quality control reviews before submittal. These reviews shall evaluate conformance to COUNTY standards and criteria as well as minimize typographical omissions.

I. DRAFT PS&E (95% COMPLETE)

The roadway plans, revised to incorporate Quality Control review comments, shall be submitted to the COUNTY for review and comment in electronic "pdf" format. These will include:

- Roadway Plans
- Design Calculations
- Special Provisions
- Roadway Quantities and Cost Estimate

One safety/constructability review meeting shall be held at the 95% PS&E stage.

J. FINAL PS&E (100% COMPLETE)

The final PS&E will incorporate applicable comments from the draft PS&E received from COUNTY and other affected agencies. The CONSULTANT will provide the necessary final PS&E documents in a bid-ready form. PROJECT files and the Project Engineer's/Resident Engineer's file will also be submitted with the final PS&E. The entire PROJECT, which will be prepared in MicroStation format, will be submitted upon final approval of the PS&E.

ARTICLE AVI • RIGHT OF WAY ACQUISITION PHASE

The PROJECT will impact private and publicly owned properties on both sides of the roadway from Wood Road to Seaton Avenue for a distance of approximately 4 miles. Based on the right-of-way exhibit provided in

the RFP, COUNTY has identified a total of 138 individual properties affected by the PROJECT consisting of 38 full acquisitions and 100 partial acquisitions. The full acquisitions include 22 unimproved lots, 15 residential parcels and 1 commercial property. As a result, up to 16 residential occupants and 3 business occupants may be displaced by the PROJECT. The partial acquisitions include 52 unimproved lots, 44 residential parcels, 2 commercial parcels, a gas station and an EMWD water tank parcel.

COUNTY will provide all right-of-way (ROW) PROJECT delivery services, including project management, acquisition and negotiations, relocation assistance, appraisal, utility relocation, title and escrow, property management, right-of-way certification and all other right-of-way services necessary to construct the PROJECT.

Public Outreach to Support Right of Way Acquisition

Based on the number of impacted parcels described previously, public outreach efforts will be provided as described below up to the fee approved for this task. CONSULTANT will:

- Establish a multi-lingual PROJECT hotline and email address for use with all communication from ROW to pre-construction to construction.
- Develop PROJECT webpage with PROJECT information, timeline, fact sheet/FAQs, explanation of the ROW process, and sign up for e-alerts about the PROJECT and construction, with translation as necessary.
- Develop bi-lingual collaterals including PROJECT fact sheet/FAQ as well as property acquisition-specific one-pager to explain process and next steps; include graphics and visual assets to provide stakeholders with an illustration of why acquisitions are necessary to build the PROJECT.
- Create and maintain a stakeholder log to include name, address, phone, email, inquiry/concern, owner (who followed up with the stakeholder), resolution, and notes.
- Host stakeholder presentations with elected officials, schools, police, sheriff, fire, refuse, postal, transit, community councils, and Mead Valley MAC to introduce the PROJECT and its schedule and explain the ROW process.
- Work with ROW team to obtain location of all stakeholders with property acquisitions.
- Plot adjacent neighbors to property acquisitions for engagement.

- Canvass to property owners informing them about the ROW process and contact information for questions and assistance; provide leave behind to those property owners not home with contact information for follow up.
- Canvass to adjacent neighbors/community about the PROJECT, its timeline, and hotline and email for inquiries and to sign up for PROJECT information; provide leave behind to those property owners not home with contact information for follow up.
- Work with ROW team to schedule and conduct one-on-one meetings for Agreement coordination and for preconstruction surveys.
- CONSULTANT will provide renderings to assist in public outreach activities. An allowance has been included in the Agreement budget for this work. Revisions to the Agreement budget may be required in order to provide the actual number of renderings and/or level of detail once this is defined.

ARTICLE AVI • CONSTRUCTION BIDDING PHASE

Bidding procedures will be the responsibility of COUNTY. While the PROJECT is being advertised for bids, all questions concerning the intent shall be referred to COUNTY for resolution. In the event that the items requiring interpretation in the drawings or specifications are discovered during the bidding period, said items shall be analyzed by the CONSULTANT for decision by COUNTY as to the proper procedure required. Corrective action taken will either be in the form of an addendum prepared by the CONSULTANT and issued by COUNTY or by covering change order after the award of the construction contract.

ARTICLE AVII • CONSTRUCTION SUPPORT PHASE

- A. CONSULTANT shall attend the pre-construction meeting with the successful construction contractor upon notification by the COUNTY.
- B. Upon award of the construction contract, CONSULTANT will proceed with the Construction Support Phase services required by this Agreement.
- C. During construction, the CONSULTANT shall furnish all necessary additional drawings for correcting and change orders required by errors and omissions of CONSULTANT. Such drawings will be requested in writing

- from the CONSULTANT by COUNTY and shall be at no additional cost to the COUNTY. The drawings and contract wording for change orders shall be submitted to the COUNTY for duplication and distribution.
- D. CONSULTANT shall review shop drawings and RFI's submitted by the construction contractor (falsework review is not included). CONSULTANT shall complete shop plan reviews within two weeks of receipt. Contract change order and RFI reviews shall be completed within five working days of receipt.
 - E. Drawings and change orders required due to actions of the COUNTY, which are beyond the scope of the CONSULTANT's responsibilities, shall be considered extra services.
 - F. CONSULTANT shall be available to visit to the jobsite for on-site review of construction and other visits to the jobsite as requested by the COUNTY to resolve any discrepancies in the contract documents. CONSULTANT shall bring to the attention of the COUNTY Resident Engineer any defects or deficiencies in the work by the construction contractor, which the CONSULTANT may observe. CONSULTANT shall have no authority to issue instructions on behalf of the COUNTY or to deputize another to do so. All agreements shall be between the COUNTY and its construction contractor. These provisions shall not be construed as making the CONSULTANT responsible for failure of the construction contractor to carry out the work in accordance with the contract documents nor the construction means or methods or techniques, sequences, procedures or safety programs in connection with the work.
 - G. CONSULTANT shall prepare and deliver to the COUNTY the "As-Built" plans based on the Resident Engineer's redlines within two months of completion of structure construction.
 - H. The services outlined in this Article will be completed up to the level of effort for the associated tasks in the approved Agreement fee estimate. Services required beyond the approved Agreement fee estimate for this Article's tasks will require an amendment to the Agreement scope and fee estimate.

ARTICLE AVIII • COMPUTER FACILITIES

A. CALCULATIONS

All roadway calculations will be performed using Bentley design software. The structural analyses and design will be performed by using the following industry standard computer programs CTBridge, VBridge, VBent, SAP2000, CSI Bridge, Xtract, CTAbut, and LPile. The data files and the results will be included in the design

calculation package.

B. COMPUTER AIDED DRAFTING AND DESIGN (CADD)

All plans will be prepared using MicroStation format in conformance with the COUNTY standards in effect at the time of Agreement execution to ensure complete compatibility.

ARTICLE AIX • QUALITY CONTROL PLAN

A Quality Control Plan will be established for this PROJECT in accordance with the provisions of Article V, Section H of the Agreement. It will be provided to the COUNTY within two (2) weeks after NTP for review and approval.

ATTACHMENT B • SCHEDULE OF SERVICES

ARTICLE BI • INTRODUCTION

CONSULTANT shall perform the covenants set forth in Attachment A, Scope of Services, in accordance with the performance requirements of ARTICLE IV PERFORMANCE PERIOD of this Agreement and with the following additional performance requirements. Time is of the essence in this Agreement.

ARTICLE BII • PERFORMANCE REQUIREMENTS

A. PHASES

This Agreement is divided into the following 3 milestones/phases:

- II. Plans, Specifications & Estimates
- III. Bid Support
- IV. Construction Support

B. SCHEDULE OF SERVICES

The below details the anticipated sequencing and completion time for the PROJECT:

- | | |
|---------------------------------------|---------------------------------|
| II. Plans, Specifications & Estimates | January 2024 – February 2026 |
| III. Bid Support | February 2026 – September 2026 |
| IV. Construction Support | September 2026 – September 2028 |

C. SUBMITTALS

Where CONSULTANT is required to prepare and submit studies, reports, plans, etc., to COUNTY, these shall be submitted in draft as scheduled, and the opportunity provided for COUNTY and AGENCIES to offer comments prior to final submission.

D. TIME EXTENSIONS

1. Any delay in providing services required by this Agreement occasioned by causes beyond the control and not due to the fault or negligence of CONSULTANT, or increases in the scope of services, shall be the reason for granting an extension of time for the completion of the aforesaid work. When such delay occurs, CONSULTANT shall promptly notify COUNTY in writing of the cause and of the extent of the delay whereupon COUNTY shall ascertain the facts and the extent of the delay and grant an extension of time for the completion of the work when, in COUNTY's judgment, their findings of fact justify such an extension of time.

1 2. COUNTY's findings of fact shall be final and conclusive to the parties hereto. However, this is not intended
2 to deny CONSULTANT of any available civil legal remedies in the event of a dispute

3 **E. FINAL ACCEPTANCE**

4 When COUNTY determines that CONSULTANT has satisfactorily completed the services, COUNTY may give
5 CONSULTANT a written Notice of Final Acceptance. CONSULTANT shall not incur any further costs hereunder
6 unless so specified in the Notice of Final Acceptance. No payment will be made for any work performed after
7 the Agreement end date as provided in ARTICLE IV PERFORMANCE PERIOD unless extended by
8 amendment regardless if a Notice of Final Acceptance has been issued or not. The final invoice shall be
9 submitted within 60 calendar days after completion of CONSULTANT's work as required by ARTICLE V
10 ALLOWABLE COSTS AND PAYMENTS. CONSULTANT may request a Notice of Final Acceptance
11 determination when, in its opinion, it has satisfactorily completed all covenants as stipulated in this Agreement.

ATTACHMENT C • COMPENSATION PLAN

ARTICLE CI • INTRODUCTION

Satisfactory performance and completion of the services under this Agreement shall be compensated based upon actual costs plus a fixed fee in accordance with ARTICLE V ALLOWABLE COSTS AND PAYMENTS and ARTICLE VII COST PRINCIPLES AND ADMINISTRATIVE REQUIREMENTS of this Agreement.

ARTICLE CII • ELEMENTS OF COMPENSATION

Compensation for the services provided will be comprised of the following elements: DIRECT LABOR COSTS, FIXED FEE, OTHER DIRECT COSTS and OUTSIDE SERVICES.

A. DIRECT LABOR COSTS

Direct labor costs shall be paid in an amount equal to the Direct Salary Costs plus the product of the Direct Salary Costs and the Multiplier which are defined as follows:

1. Direct Salary Costs

Direct Salary Costs are the base salaries and wages actually paid to the CONSULTANT's personnel directly engaged in performance of the services under the Agreement. Salary rates for specific employees shall be provided on the Cost Proposal Worksheets included in ARTICLE CVI • COST PROPOSAL. CONSULTANT may request adjustments to individual salary rates on an annual basis. Salary rate increases during the term of the Agreement may not exceed a total of 3% of the direct labor budget. CONSULTANT shall notify COUNTY in writing requesting a change in the rates included herein. All adjustments to rates shall be subject to approval by the COUNTY Director of Transportation, or his designee.

2. Multiplier

The Multiplier to be applied to the Direct Salary Costs to determine the Direct Labor Costs is the sum of the following components:

PAYROLL ADDITIVES0 %

The decimal ratio of Payroll Additives to Direct Salary Costs. Payroll Additives include all employee benefits, allowances for vacation, sick leave, and holidays, and company portion of employee insurance and social and retirement benefits, all federal and state payroll taxes, premiums for insurance which are measured by payroll costs, and other contributions and benefits imposed by applicable laws and regulations.

OVERHEAD COSTS150.75 %

The decimal ratio of allowable Overhead Costs to CONSULTANT firm's total Direct Salary Costs. Allowable Overhead Costs include general, administrative and overhead costs of maintaining and operating established offices, and consistent with established firm policies, and as defined in the Federal Acquisitions Regulations, Part 31.2.

TOTAL MULTIPLIER.....150.75 %
(sum of Payroll Additives and Overhead Costs)

B. FIXED FEE

1. The total Fixed Fee payable to the CONSULTANT is \$446,028.53.
2. A pro-rata share of the Fixed Fee shall be applied to the total Direct Labor Costs expended for services each month and shall be included on each monthly invoice.

C. OTHER DIRECT EXPENSES

Other Direct Expenses, directly identifiable to the performance of the services of this Agreement, shall be reimbursed at the rates below, or at actual cost.

Rates for identified Other Direct Expenses are as follows:

Item	Rate	Unit	Budget
Mileage	\$0.655	EA	\$4,873.20
Reprographics	\$5,000.00	LS	\$5,000.00

D. OUTSIDE SERVICES

Outside Services shall be paid in accordance with the cost proposals approved for each Subconsultant. Billings for Outside Services shall be submitted along with the CONSULTANT's monthly progress billing submittals and shall be in conformance with the COUNTY Consulting Services Manual invoicing procedures.

ARTICLE CIII • DIRECT SALARY RATES

Direct Salary Costs, which are the range of hourly rates to be used in determining Direct Labor Costs, are given below and are subject to the following:

A. PREMIUM OVERTIME

Direct Salary Costs shall be applicable to both straight time and overtime work, unless payment of a premium for overtime work is required by law, regulation or craft agreement, or is otherwise specified in this Agreement. In such event, the premium portion of Direct Salary Costs will not be subject to the Multiplier.

B. SALARY RATES

Cajalco Road Widening Segment 1 – Wood Road to Seaton Avenue

CONSULTANT shall notify COUNTY in writing requesting a change in the rates included herein. All adjustments to rates shall be subject to approval by the COUNTY Director of Transportation, or his designee.

POSITION OR CLASSIFICATION MAXIMUM HOURLY RATES

Principal-in-Charge	\$151.05	per hour
Project Manager	\$140.00	per hour
QA/QC	\$105.00	per hour
QA/QC-Environmental	\$90.00	per hour
QA/QC-Constructability	\$110.00	per hour
Technical Manager	\$95.00	per hour
Senior Civil Engineer-Roadway	\$75.00	per hour
Senior Civil Engineer-Staging-Sings-PD	\$75.00	per hour
Senior Civil Engineer-Utilities	\$85.00	per hour
Civil Engineer	\$60.00	per hour
Assistant Civil Engineer	\$50.00	per hour
CADD	\$50.00	per hour
Project Controls	\$60.00	per hour
Visualizations/Renderings	\$90.00	per hour
Sr. Bridge Engineer I	\$75.00	per hour
Lead Bridge Engineer	\$115.00	per hour
Sr. Bridge Engineer II	\$105.00	per hour
Engineer II	\$60.00	per hour
Bridge Engineer II	\$80.00	per hour
Design Technician III	\$75.00	per hour
Design Technician II	\$65.00	per hour
Senior Construction Engineer II	\$90.00	per hour
Bridge Engineer I	\$65.00	per hour

The above rates are for CONSULTANT only. All rates for subconsultants to CONSULTANT will be in

1 accordance with the subconsultants approved cost proposal.

2 **C. MINIMUM RATES**

3 The minimum allowable wage rates are subject to ARTICLE XII STATE PREVAILING WAGE RATES of this
4 Agreement and to Federal "Payment of Predetermined Minimum Wage" requirements as outlined below. The
5 Federal requirements are only applicable if the services are being paid for in whole or in part with federal-aid
6 funding.

7 The Federal minimum wage rates for this PROJECT as determined by the United States Secretary of Labor
8 are available from the U.S Department of Labor, Employment Standards Administration, Wage and Hour
9 Division. If there is a difference between the minimum wage rates determined by the Secretary of Labor and
10 the general prevailing wage rates determined by the Director of the California Department of Industrial Relations
11 for similar classifications of labor, the CONSULTANT and subcontractors shall pay not less than the higher
12 wage rate. The Department will not accept lower State wage rates determinations. This includes "helper" (or
13 other classifications based on hours of experience) or any other classification not appearing in the Federal wage
14 determinations. Where Federal wage determinations do not contain the State wage rate determination
15 otherwise available for use by the CONSULTANT and subcontractors, the CONSULTANT and subcontractors
16 shall pay not less than the Federal minimum wage rate which most closely approximates the duties of the
17 employees in question.

18 **ARTICLE CIV • INVOICING**

19 CONSULTANT shall submit invoices in accordance with the ARTICLE V • ALLOWABLE COSTS AND
20 PAYMENTS of this Agreement, the COUNTY's Consulting Services Manual and with the following
21 requirements.

- 22 1. Charges shall be billed in accordance with the terms and rates included herein, unless otherwise agreed
23 in writing by the COUNTY Contract Administrator.
- 24 2. Base Work and Extra Work shall be charged separately, and the charges for each Phase listed in
25 Attachment B, Schedule of Services, shall be listed separately. The charges for each individual
26 assigned under this Agreement shall be listed separately.
- 27 3. Each invoice shall bear a certification signed by the CONSULTANT Project Manager or an officer of
28 the firm which reads as follows:

29 "I hereby certify that the hours and salary rates charged in this invoice are the actual hours and

1 rates worked and paid to the employees listed.”

2 **ARTICLE CV • PAYMENT**

3 Progress payments shall be made in accordance with ARTICLE V ALLOWABLE COSTS AND PAYMENTS of this
4 Agreement.

5 **ARTICLE CVI • COST PROPOSAL**

6 The following cost proposal worksheets reflect the negotiated targeted contract amounts. The cost proposal will
7 serve as a guideline and reference document during the execution of this Agreement. The total amount of the
8 Agreement is not to exceed \$9,453,643.86 plus a 10% contingency of \$945,364.39. Reimbursement is to be made
9 at actual cost plus fixed fee, however, billing shall not exceed the rates provided above. In the event a contingency
10 budget is provided, COUNTY shall hold such contingency in reserve for unforeseen Extra Work that may arise
11 during the performance of this Agreement. Contingency budget shall only be used at the discretion of the COUNTY
12 Contract Administrator, and with prior written authorization by the COUNTY Contract Administrator in the form of
13 an Administrative Budget Modification as required by the COUNTY’s Consulting Services Manual. Contingency
14 budgets are not allowed for services that are paid in whole or in part with federal-aid funding.

ATTACHMENT D • TITLE VI ASSURANCES

ARTICLE DI • INTRODUCTION

The U.S. Department of Transportation Order No. 1050.2A requires all federal-aid Department of Transportation contracts between COUNTY and CONSULTANT to contain Clauses A and E of Article DII • Clauses below. Clauses B, C, and D of Article DII • Clauses below are only applicable as shown below. In addition, the CONSULTANT must include Clauses A and E, and if applicable, Clauses B, C, and D of Article DII • Clauses below in all subcontracts to perform work under this Agreement.

Clause B of Article DII • Clauses below shall be included as a covenant running with the land, in any deed from the United States effecting or recording a transfer of real property, structures, use or improvements thereon or interest therein to COUNTY. Clauses C and D of Article DII • Clauses below shall be included as a covenant running with the land, in any future deeds, leases, licenses, permits, or similar instruments entered into by COUNTY with other parties: (a) for the subsequent transfer of real property acquired or improved under the applicable activity, project or program; and (b) for the construction of use of, or access to, space on, over, or under real property acquired or improved under the applicable activity, project or program.

ARTICLE DII • CLAUSES

CLAUSE A

During the performance of this Agreement, the CONSULTANT, for itself, its assignees and successors in interest (hereinafter collectively referred to as CONSULTANT) agrees as follows:

- a. Compliance with Regulations: CONSULTANT shall comply with the regulations relative to nondiscrimination in federally assisted programs of the Department of Transportation, Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the REGULATIONS), which are herein incorporated by reference and made a part of this Agreement.
- b. Nondiscrimination: CONSULTANT, with regard to the work performed by it during the Agreement, shall not discriminate on the grounds of race, color, sex, national origin, religion, age, or disability in the selection and retention of sub-applicants, including procurements of materials and leases of equipment. CONSULTANT shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the REGULATIONS, including employment practices when the agreement covers a program set forth in Appendix B of the REGULATIONS.

- 1 c. Solicitations for Sub-agreements, Including Procurements of Materials and Equipment: In all solicitations
2 either by competitive bidding or negotiation made by CONSULTANT for work to be performed under a Sub-
3 agreement, including procurements of materials or leases of equipment, each potential sub-applicant or
4 supplier shall be notified by CONSULTANT of the CONSULTANT'S obligations under this Agreement and
5 the REGULATIONS relative to nondiscrimination on the grounds of race, color, or national origin.
- 6 d. Information and Reports: CONSULTANT shall provide all information and reports required by the
7 REGULATIONS, or directives issued pursuant thereto, and shall permit access to its books, records,
8 accounts, other sources of information, and its facilities as may be determined by the recipient or FHWA to
9 be pertinent to ascertain compliance with such REGULATIONS or directives. Where any information
10 required of CONSULTANT is in the exclusive possession of another who fails or refuses to furnish this
11 information, CONSULTANT shall so certify to the recipient or FHWA as appropriate, and shall set forth what
12 efforts CONSULTANT has made to obtain the information.
- 13 e. Sanctions for Noncompliance: In the event of CONSULTANT's noncompliance with the nondiscrimination
14 provisions of this Agreement, the recipient shall impose such agreement sanctions as it or the FHWA may
15 determine to be appropriate, including, but not limited to:
- 16 i. withholding of payments to CONSULTANT under the Agreement within a reasonable period of time,
17 not to exceed 90 days; and/or
- 18 ii. cancellation, termination or suspension of the Agreement, in whole or in part.
- 19 f. Incorporation of Provisions: CONSULTANT shall include the provisions of paragraphs (1) through (6) in
20 every sub-agreement, including procurements of materials and leases of equipment, unless exempt by the
21 REGULATIONS, or directives issued pursuant thereto.

22 CONSULTANT shall take such action with respect to any sub-agreement or procurement as the recipient or
23 FHWA may direct as a means of enforcing such provisions including sanctions for noncompliance, provided,
24 however, that, in the event CONSULTANT becomes involved in, or is threatened with, litigation with a sub-
25 applicant or supplier as a result of such direction, CONSULTANT may request the recipient enter into such
26 litigation to protect the interests of the State, and, in addition, CONSULTANT may request the United States to
27 enter into such litigation to protect the interests of the United States.

28
29 **CLAUSE B: CLAUSES FOR DEEDS TRANSFERRING UNITED STATES PROPERTY**

1 The following clauses will be included in deeds effecting or recording the transfer of real property, structures, or
2 improvements thereon, or granting interest therein from the United States pursuant to the provisions of Assurance
3 4:

4
5 **NOW THEREFORE**, the U.S. Department of Transportation as authorized by law and upon the condition that
6 the recipient will accept title to the lands and maintain the project constructed thereon in accordance with Title
7 23 U.S.C., the regulations for the administration of the preceding statute, and the policies and procedures
8 prescribed by the FHWA of the U.S. Department of Transportation in accordance and in compliance with all
9 requirements imposed by Title 49, Code of Federal Regulations, U.S. Department of Transportation, Subtitle A,
10 Office of the Secretary, Part 21, Non-discrimination in Federally-assisted programs of the U.S. Department of
11 Transportation pertaining to and effectuating the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat.
12 252; 42 U.S.C. § 2000d to 2000d-4), does hereby remise, release, quitclaim and convey unto the recipient all
13 the right, title and interest of the U.S. Department of Transportation in and to said lands described in Exhibit A
14 attached hereto and made a part hereof.

15
16 **(HABENDUM CLAUSE)**

17 **TO HAVE AND TO HOLD** said lands and interests therein unto the recipient and its successors forever, subject,
18 however, to the covenants, conditions, restrictions and reservations herein contained as follows, which will
19 remain in effect for the period during which the real property or structures are used for a purpose for which
20 Federal financial assistance is extended or for another purpose involving the provision of similar services or
21 benefits and will be binding on the recipient, its successors and assigns. The recipient, in consideration of the
22 conveyance of said lands and interest in lands, does hereby covenant and agree as a covenant running with
23 the land for itself, its successors and assigns, that (1) no person will on the grounds of race, color, or national
24 origin, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination
25 with regard to any facility located wholly or in part on, over, or under such lands hereby conveyed [,] [and]* (2)
26 that the recipient will use the lands and interests in lands and interest in lands so conveyed, in compliance with
27 all requirements imposed by or pursuant to Title 49, Code of Federal Regulations, U.S. Department of
28 Transportation, Subtitle A, Office of the Secretary, Part 21, Non-discrimination in Federally-assisted programs
29 of the Department of Transportation, Effectuation of Title VI of the Civil Rights Act of 1964, and as said

1 Regulations and Acts may be amended [, and (3) that in the event of breach of any of the above- mentioned
2 non-discrimination conditions, the Department will have a right to enter or re-enter said lands and facilities on
3 said lands, and that above described land and facilities will thereon revert to and vest in and become the
4 absolute property of the U.S. Department of Transportation and its assigns as such interest existed prior to this
5 instruction].*

6
7 (*Reverter clause and related language to be used only when it is determined that such a clause is necessary
8 in order to make clear the purpose of Title VI.)

9
10 **CLAUSE C: CLAUSES FOR TRANSFER OF REAL PROPERTY ACQUIRED OR IMPROVED UNDER THE**
11 **ACTIVITY, FACILITY, OR PROGRAM**

12 The following clauses will be included in deeds, licenses, leases, permits, or similar instruments entered into by the
13 recipient pursuant to the provisions of Assurance 7(a):

14 A. The (grantee, lessee, permittee, etc. as appropriate) for himself/herself, his/her heirs, personal
15 representatives, successors in interest, and assigns, as a part of the consideration hereof, does hereby
16 covenant and agree [in the case of deeds and leases add "as a covenant running with the land"] that:

17 1. In the event facilities are constructed, maintained, or otherwise operated on the property described
18 in this (deed, license, lease, permit, etc.) for a purpose for which a U.S. Department of
19 Transportation activity, facility, or program is extended or for another purpose involving the
20 provision of similar services or benefits, the (grantee, licensee, lessee, permittee, etc.) will maintain
21 and operate such facilities and services in compliance with all requirements imposed by the Acts
22 and Regulations (as may be amended) such that no person on the grounds of race, color, or
23 national origin, will be excluded from participation in, denied the benefits of, or be otherwise
24 subjected to discrimination in the use of said facilities.

25 B. With respect to licenses, leases, permits, etc., in the event of breach of any of the above Nondiscrimination
26 covenants, the recipient will have the right to terminate the (lease, license, permit, etc.) and to enter, re-
27 enter, and repossess said lands and facilities thereon, and hold the same as if the (lease, license, permit,
28 etc.) had never been made or issued.*

29 C. With respect to a deed, in the event of breach of any of the above Non-discrimination covenants, the

1 recipient will have the right to enter or re-enter the lands and facilities thereon, and the above described
2 lands and facilities will there upon revert to and vest in and become the absolute property of the recipient
3 and its assigns.*

4 (*Reverter clause and related language to be used only when it is determined that such a clause is
5 necessary to make clear the purpose of Title VI.)

6
7 **CLAUSE D: CLAUSES FOR CONSTRUCTION/USE/ACCESS TO REAL PROPERTY ACQUIRED UNDER THE**
8 **ACTIVITY, FACILITY OR PROGRAM**

9 The following clauses will be included in deeds, licenses, permits, or similar instruments/agreements entered into
10 by the recipient pursuant to the provisions of Assurance 7(b):

11 A. The (grantee, licensee, permittee, etc., as appropriate) for himself/herself, his/her heirs, personal
12 representatives, successors in interest, and assigns, as a part of the consideration hereof, does hereby
13 covenant and agree (in the case of deeds and leases add, "as a covenant running with the land") that (1)
14 no person on the ground of race, color, or national origin, will be excluded from participation in, denied the
15 benefits of, or be otherwise subjected to discrimination in the use of said facilities, (2) that in the
16 construction of any improvements on, over, or under such land, and the furnishings of services thereon,
17 no person on the ground of race, color, or national origin, will be excluded from participation in, denied the
18 benefits or, or otherwise be subjected to discrimination, (3) that the (grantee, licensee, lessee, permittee,
19 etc.) will use the premises in compliance with all other requirements imposed by or pursuant to the Acts
20 and Regulations, as amended, set forth in this Assurance.

21 B. With respect to (licenses, leases, permits, etc.) in the event of breach of any of the above of the above
22 Non-discrimination covenants, the recipient will have the right to terminate the (license, permits, etc., as
23 appropriate) and to enter or re-enter and repossess said land and the facilities thereon, and hold the same
24 as if said (license, permit, etc., as appropriate) had never been made or issued.*

25 C. With respect to deeds, in the event of breach of any of the above Non-discrimination covenants, the
26 recipient will there upon revert to and vest in and become the absolute property of the recipient and its
27 assigns.

1 **CLAUSE E:**

2 During the performance of this Agreement, the CONSULTANT, for itself, its assignees, and successors in interest
3 (hereinafter referred to as the "CONSULTANT") agrees to comply with the following nondiscrimination statutes and
4 authorities, including, but not limited to:

5 **Pertinent Non-Discrimination Authorities:**

- 6 • Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq., 78 stat. 252), prohibits discrimination on
7 the basis of race, color, national origin); and 49 CFR Part 21.
- 8 • The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601),
9 (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal
10 or Federal-aid programs and projects);
- 11 • Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 et seq.), prohibits discrimination on the basis of sex;
- 12 • Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 et seq.), as amended, (prohibits
13 discrimination on the basis of disability); and 49 CR Part 27;
- 14 • The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 et seq.), prohibits discrimination on
15 the basis of age);
- 16 • Airport and Airway Improvement Act of 1982, (49 U.S.C. § 471, Section 47123), as amended, (prohibits
17 discrimination based on race, creed, color, national origin, or sex);
- 18 • The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability
19 of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the
20 Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of
21 the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such
22 programs or activities are Federally funded or not);
- 23 • Titles II and III of the Americans with Disabilities Act, which prohibit discrimination of the basis of disability
24 in the operation of public entities, public and private transportation systems, places of public
25 accommodation, and certain testing entities (42 U.S.C. §§ 12131 – 12189) as implemented by Department
26 of Transportation regulations 49 C.F.R. parts 37 and 38;
- 27 • The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits
28 discrimination on the basis of race, color, national origin, and sex);
- 29 • Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-

1 Income Populations, which ensures discrimination against minority populations by discouraging programs,
2 policies, and activities with disproportionately high and adverse human health or environmental effects on
3 minority and low-income populations;

- 4 • Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and
5 resulting agency guidance, national origin discrimination includes discrimination because of Limited English
6 Proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP
7 persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- 8 • Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating
9 because of sex in education programs or activities (20 U.S.C.1681 et seq).

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Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal

July 26, 2023

COMPANIES	PHASE I	PHASE II	PHASE III	PHASE IV	TOTAL
TYLin Prime	\$ 4,627,947.66	\$ 40,333.84	\$ 247,905.57	\$ 4,916,187.07	\$ 4,916,187.07
TYLin-Structures	\$ 888,873.47	\$ 27,139.59	\$ 134,412.20	\$ 1,050,425.26	\$ 1,050,425.26
Earth Mechanics, Inc.	\$ 452,879.44	\$ 1,354.25	\$ 26,294.78	\$ 480,528.48	\$ 480,528.48
LIN Consulting	\$ 326,677.41	\$ 4,120.74	\$ 49,451.40	\$ 380,249.55	\$ 380,249.55
Laurel CEC	\$ 163,210.48			\$ 163,210.48	\$ 163,210.48
Kimley-Horn	\$ 1,886,050.16	\$ 37,543.34	\$ 84,783.58	\$ 2,008,377.08	\$ 2,008,377.08
Guida	\$ 89,458.93			\$ 89,458.93	\$ 89,458.93
Monument ROW (Utilities only)	\$ 238,777.67			\$ 238,777.67	\$ 238,777.67
Costin Public Outreach Group	\$ 126,429.34			\$ 126,429.34	\$ 126,429.34
TOTAL	\$ 8,800,304.56	\$ 110,491.77	\$ 542,847.53	\$ 9,453,643.86	\$ 9,453,643.86

Phase I **Preliminary Engineering & Environmental**

Phase II **Plans, Specs & Estimates**

Phase III **Bid Support**

Phase IV **Construction Support**

FEE PROPOSAL WORKSHEET

COMPANY: TYLin	SCOPE OF WORK: Project Summary	PHASE: All Phases
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue		DATE: July 26, 2023

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Clark Femon	Principal-in-Charge	2	@	\$151.05	\$302.10
Karen Chapman	Project Manager	1,356	@	\$132.00	\$178,992.00
Ryan Lau	QA/QC	220	@	\$98.00	\$21,560.00
Alicia Lemke	QA/QC-Environmental	100	@	\$83.00	\$8,300.00
Wade Durant	QA/QC-Constructability	100	@	\$104.00	\$10,400.00
Eric Johnson	Technical Manager	2,428	@	\$87.00	\$211,236.00
Melinda Cruz	Senior Civil Engineer-Roadway	3,252	@	\$68.00	\$221,136.00
Christina Diaz	Senior Civil Engineer-Staging-Signs-PD	2,264	@	\$69.00	\$156,216.00
Phil Brand	Senior Civil Engineer-Utilities	1,176	@	\$80.00	\$94,080.00
	Civil Engineer	8,618	@	\$50.00	\$430,900.00
	Assistant Civil Engineer	3,820	@	\$42.00	\$160,440.00
	CADD	3,804	@	\$42.00	\$159,768.00
	Project Controls	472	@	\$52.00	\$24,544.00
	Visualizations/Renderings	180	@	\$90.00	\$16,200.00
TOTAL HOURS:		27,792		TOTAL AMOUNT:	\$1,694,074.10

MULTIPLIERS

ESCALATION @	5.00%	(Rates Vary by Phase)	\$84,703.71
OVERHEAD @	150.75%	(of Direct Labor + Escalation)	\$2,681,507.53
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE)	10.0%		\$446,028.53
TOTAL MULTIPLIERS:			\$3,212,239.77

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Mileage	7440	EA	@	\$0.655	\$4,873.20
Reprographics	1	LS	@	\$5,000.00	\$5,000.00
TOTAL ODC'S:					\$9,873.20

SUB CONSULTANT SERVICES

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
TYLin-Structures	\$362,558.00	\$687,343.26	\$524.00	\$1,050,425.26
Earth Mechanics, Inc.	\$62,086.80	\$130,436.68	\$288,005.00	\$480,528.48
Estrada Land Planning--Deleted				
LIN Consulting	\$139,316.00	\$240,370.25	\$563.30	\$380,249.55
Laurel CEC	\$86,930.00	\$9,840.48	\$66,440.00	\$163,210.48
Kimley-Horn	\$579,884.32	\$1,396,252.76	\$32,240.00	\$2,008,377.08
Guida	\$26,467.40	\$62,741.53	\$250.00	\$89,458.93
Monument ROW (Utilities only)	\$63,723.17	\$85,054.50	\$90,000.00	\$238,777.67
Costin Public Outreach Group	\$47,270.50	\$72,843.84	\$6,315.00	\$126,429.34
TOTAL SUBCONSULTANT SERVICES:				\$4,537,456.79

GRAND TOTAL **\$9,453,643.86**

FEE PROPOSAL WORKSHEET

COMPANY: TYLin	SCOPE OF WORK: Plans, Specs & Estimates	PHASE: Phase II
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue		DATE: July 26, 2023

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Clark Feron	Principal-in-Charge	2	@	\$151.05	\$302.10
Karen Chapman	Project Manager	1,288	@	\$132.00	\$170,016.00
Ryan Lau	QA/QC	220	@	\$98.00	\$21,560.00
Alicia Lemke	QA/QC-Environmental	100	@	\$83.00	\$8,300.00
Wade Durant	QA/QC-Constructability	100	@	\$104.00	\$10,400.00
Eric Johnson	Technical Manager	2,012	@	\$87.00	\$175,044.00
Melinda Cruz	Senior Civil Engineer-Roadway	3,236	@	\$68.00	\$220,048.00
Christina Diaz	Senior Civil Engineer-Staging-Signs-PD	2,248	@	\$69.00	\$155,112.00
Phil Brand	Senior Civil Engineer-Utilities	1,160	@	\$80.00	\$92,800.00
	Civil Engineer	8,038	@	\$50.00	\$401,900.00
	Assistant Civil Engineer	3,820	@	\$42.00	\$160,440.00
	CADD	3,295	@	\$42.00	\$138,390.00
	Project Controls	472	@	\$52.00	\$24,544.00
	Visualizations/Renderings	180	@	\$90.00	\$16,200.00
TOTAL HOURS:		26,171		TOTAL AMOUNT:	\$1,595,056.10

MULTIPLIERS

ESCALATION @	5.00%	(of Direct Labor)	\$79,752.81
OVERHEAD @	150.75%	(of Direct Labor + Escalation)	\$2,524,774.42
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE)	10.0%		\$419,958.33
TOTAL MULTIPLIERS:			\$3,024,485.56

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Mileage	5200	EA	@	\$0.66	\$3,406.00
Reprographics	1	LS	@	\$5,000.00	\$5,000.00
TOTAL ODC'S:					\$8,406.00

SUB CONSULTANT SERVICES

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
TYLin-Structures	\$306,770.00	\$581,579.47	\$524.00	\$888,873.47
Earth Mechanics, Inc.	\$53,536.40	\$111,338.04	\$288,005.00	\$452,879.44
Estrada Land Planning--Deleted				
LIN Consulting	\$119,736.00	\$206,587.71	\$353.70	\$326,677.41
Laurel CEC	\$86,930.00	\$9,840.48	\$66,440.00	\$163,210.48
Kimley-Horn	\$545,306.36	\$1,308,783.80	\$31,960.00	\$1,886,050.16
Guida	\$26,467.40	\$62,741.53	\$250.00	\$89,458.93
Monument ROW (Utilities only)	\$63,723.17	\$85,054.50	\$90,000.00	\$238,777.67
Costin Public Outreach Group	\$47,270.50	\$72,843.84	\$6,315.00	\$126,429.34
TOTAL SUBCONSULTANT SERVICES:				\$4,172,356.90

TOTAL \$8,800,304.56

FEE PROPOSAL WORKSHEET

COMPANY: TYLin	SCOPE OF WORK: Bid Support	PHASE: Phase III
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue		DATE: July 26, 2023

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Clark Femon	Principal-in-Charge		\$151.05	
Karen Chapman	Project Manager	22	@ \$132.00	\$2,904.00
Ryan Lau	QA/QC		\$98.00	
Alicia Lemke	QA/QC-Environmental		\$83.00	
Wade Durant	QA/QC-Constructability		\$104.00	
Eric Johnson	Technical Manager	58	@ \$87.00	\$5,046.00
Melinda Cruz	Senior Civil Engineer-Roadway	10	@ \$68.00	\$680.00
Christina Diaz	Senior Civil Engineer-Staging-Signs-PD	10	@ \$69.00	\$690.00
Phil Brand	Senior Civil Engineer-Utilities	10	@ \$80.00	\$800.00
	Civil Engineer	40	@ \$50.00	\$2,000.00
	Assistant Civil Engineer		\$42.00	
	CADD	40	@ \$42.00	\$1,680.00
	Project Controls		\$52.00	
	Visualizations/Renderings		\$90.00	
TOTAL HOURS:		190	TOTAL AMOUNT:	\$13,800.00

MULTIPLIERS

ESCALATION @	5.00%	(of Direct Labor)	\$690.00
OVERHEAD @	150.75%	(of Direct Labor + Escalation)	\$21,843.68
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE)	10.0%		\$3,633.37
TOTAL MULTIPLIERS:			\$26,167.04

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mileage	560	EA @	\$0.66	\$366.80
Reprographics		LS	\$5,000.00	
TOTAL ODC'S:				\$366.80

SUB CONSULTANT SERVICES

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
TYLin-Structures	\$9,372.00	\$17,767.59		\$27,139.59
Earth Mechanics, Inc.	\$418.80	\$935.45		\$1,354.25
Estrada Land Planning--Deleted				
LIN Consulting	\$1,512.00	\$2,608.74		\$4,120.74
Laurel CEC				
Kimley-Horn	\$10,597.00	\$26,806.34	\$140.00	\$37,543.34
Guida				
Monument ROW (Utilities only)				
Costin Public Outreach Group				
TOTAL SUBCONSULTANT SERVICES:				\$70,157.92

TOTAL \$110,491.77

FEE PROPOSAL WORKSHEET

COMPANY: TYLin	SCOPE OF WORK: Construction Support	PHASE: Phase IV
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue		DATE: July 26, 2023

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Clark Femon	Principal-in-Charge		\$151.05	
Karen Chapman	Project Manager	46	@ \$132.00	\$6,072.00
Ryan Lau	QA/QC		\$98.00	
Alicia Lemke	QA/QC-Environmental		\$83.00	
Wade Durant	QA/QC-Constructability		\$104.00	
Eric Johnson	Technical Manager	358	@ \$87.00	\$31,146.00
Melinda Cruz	Senior Civil Engineer-Roadway	6	@ \$68.00	\$408.00
Christina Diaz	Senior Civil Engineer-Staging-Signs-PD	6	@ \$69.00	\$414.00
Phil Brand	Senior Civil Engineer-Utilities	6	@ \$80.00	\$480.00
	Civil Engineer	540	@ \$50.00	\$27,000.00
	Assistant Civil Engineer		\$42.00	
	CADD	469	@ \$42.00	\$19,698.00
	Project Controls		\$52.00	
	Visualizations/Renderings		\$90.00	
TOTAL HOURS:		1,431	TOTAL AMOUNT:	\$85,218.00

MULTIPLIERS

ESCALATION @	5.00%	(of Direct Labor)	\$4,260.90
OVERHEAD @	150.75%	(of Direct Labor + Escalation)	\$134,889.44
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE)	10.0%		\$22,436.83
TOTAL MULTIPLIERS:			\$161,587.17

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mileage	1680	EA @	\$0.66	\$1,100.40
Reprographics		LS	\$5,000.00	
TOTAL ODC'S:				\$1,100.40

SUB CONSULTANT SERVICES

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
TYLin-Structures	\$46,416.00	\$87,996.20		\$134,412.20
Earth Mechanics, Inc.	\$8,131.60	\$18,163.18		\$26,294.78
Estrada Land Planning--Deleted				
LIN Consulting	\$18,068.00	\$31,173.80	\$209.60	\$49,451.40
Laurel CEC				
Kimley-Horn	\$23,980.96	\$60,662.62	\$140.00	\$84,783.58
Guida				
Monument ROW (Utilities only)				
Costin Public Outreach Group				
TOTAL SUBCONSULTANT SERVICES:				\$294,941.96

TOTAL \$542,847.53

MANHOOR WORKSHEET		
COMPANY: TYLin	SCOPE OF WORK: Manhour Summary	PHASE: All Phases
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue		DATE: July 26, 2023

TASK	PRINCIPAL-IN-CHARGE	PROJECT MANAGER	QA/QC	QA/QC-ENVIRONMENTAL	QA/QC-CONSTRUCTABILITY	TECHNICAL MANAGER	SENIOR CIVIL ENGINEER-ROADWAY	SENIOR CIVIL ENGINEER-STAGING-SIGNS-PD	SENIOR CIVIL ENGINEER-UTILITIES	CIVIL ENGINEER	ASSISTANT CIVIL ENGINEER	CADD	PROJECT CONTROLS	VISUALIZATIONS/RENDERINGS	(Top & Bottom) HOURS
	\$416.63	\$364.09	\$270.31	\$228.93	\$286.86	\$239.97	\$187.56	\$190.32	\$220.66	\$137.91	\$115.85	\$115.85	\$143.43	\$248.24	HOURS

PHASE TOTALS	2	1,356	220	100	100	2,428	3,252	2,264	1,176	8,618	3,820	3,804	472	180	27,792	27,792
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PHASE I																
PHASE II	2	1,288	220	100	100	2,012	3,236	2,248	1,160	8,038	3,820	3,295	472	180	26,171	26,171
PHASE III		22				58	10	10	10	40		40			190	190
PHASE IV		46				358	6	6	6	540		469			1,431	1,431

TASK	PRINCIPAL-IN-CHARGE	PROJECT MANAGER	QA/QC	QA/QC-ENVIRONMENTAL	QA/QC-CONSTRUCTABILITY	TECHNICAL MANAGER	SENIOR CIVIL ENGINEER-ROADWAY	SENIOR CIVIL ENGINEER-STAGING-SIGNS-PD	SENIOR CIVIL ENGINEER-UTILITIES	CIVIL ENGINEER	ASSISTANT CIVIL ENGINEER	CADD	PROJECT CONTROLS	VISUALIZATIONS/RENDERINGS	HOURS
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PHASE TOTALS															
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PHASE I
PHASE II
PHASE III
PHASE IV

MANHOOR WORKSHEET														PHASE		
COMPANY TYLin				SCOPE OF WORK Plans, Specs & Estimates					Phase II							
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue									DATE July 26, 2023							
TASK	PRINCIPAL & CHARGE	PROJECT MANAGER	QA/QC	QA/QC-ENVIRONMENTAL	QA/QC-CONSTRUCTIBILITY	TECHNICAL MANAGER	SENIOR CIVIL ENGINEER ROADWAY	SENIOR CIVIL ENGINEER & INFRASTRUCTURE	SENIOR CIVIL ENGINEER UTILITIES	CIVIL ENGINEER	ASSISTANT CIVIL ENGINEER	QA/QC	PROJECT CONTROLS	QUALIFICATION/PRODUCTIVITY	HOURS	COST
	\$416.61	\$364.59	\$270.31	\$229.93	\$268.96	\$278.61	\$187.54	\$190.32	\$220.98	\$171.91	\$115.85	\$116.95	\$143.41	\$248.24		
Total Manhours	2	1,288	220	100	100	2,012	3,236	2,248	1,160	8,038	3,820	3,295	472	180	26,171	
Task 1: Project Management/Administration																
1.1 Project Management/Administration		432				216	108								324	1,080 \$ 275,847
1.2 Schedules		78													78	186 \$ 39,896
1.3 Progress Reports		64				108										162 \$ 45,877
1.4 Design QMP		4	40	4	4											62 \$ 14,332
1.5 Project Management Plan	2	16				4										22 \$ 7,619
1.6 PDT Meetings & Stakeholder coordination		486				324	324								54	1,188 \$ 323,212
Task 2: GAD35% Plans & Estimate																
2.1 Data Collection						4							80	16	100	\$ 12,822
2.2 RAW Engineering Services (By County)						16			158	264					438	\$ 75,113
2.3 Utility Coordination & Base Plan						16									16	\$ 3,839
2.4 Encroachment permit coordination						16									40	\$ 8,951
2.5 Design Surveys, Aerial Mapping, Right of Entry Coordination with County						20	20								190	\$ 26,512
2.6 Preliminary construction cost estimate	2					4	16	8		80	80		40		848	\$ 134,426
2.7 Geometric refinements		8				80	240			320	160				444	\$ 87,544
2.8 Nonstandard design features identification & approvals		4				40	80			200			120		40	\$ 11,105
2.9 Drainage Pre-Design Validation/Stormwater Management Coord		16				16	8								3	\$ 844
2.10 Geotechnical Exploration		1				2									3	\$ 844
2.11 Preliminary Foundation Report		1				2									3	\$ 844
2.12 Structure Type Selection (Cajalco Creek Bridge)		2				4	8								14	\$ 3,189
2.13 Bridge Type Selection Meeting & Approval		2				4	8								14	\$ 3,189
2.14 Hazardous Waste		1				2									3	\$ 844
2.15 EMV/D Evaluations & Coordination		8				16			24	24					72	\$ 15,359
2.16 Geometric Approval Drawings, Staging, Utilities (35% plans)		8				40	320	240		434	624	360			1,926	\$ 280,470
2.17 Retaining walls preliminary assessment strip map		4				8	24			80		24			140	\$ 21,691
2.18 35% submittal construction cost estimate		4				12	24			80	80				180	\$ 26,821
2.19 35% submittal		2	40	24	24	80									170	\$ 43,117
Task 3: Intermediate PS&E (65% PS&E)																
3.1 Roadway Plans																
Title sheet		1				1	2			4					20	\$ 2,821
Strip map (3 sheets)		1				2	4			20		24			51	\$ 7,133
Typical sections (15 sheets)		1				12	40			60		24			137	\$ 21,801
Project Control (by County)																
Layout sheets (32 sheets)		1				48	168			256		72			545	\$ 87,039
Profile/Elevation sheets (32 sheets)		1				16	84			128		40			269	\$ 42,245
Construction Details (74 sheets)		1				16	48			768	542				1,375	\$ 164,865
Contour Grading (32 sheets)		1				16	72			112		32			233	\$ 36,861
Drainage Plan		1				40									41	\$ 9,963
Drainage Profiles		1				40									41	\$ 9,963
Drainage Details		1				8									9	\$ 2,284
Utility Plans (32 sheets)		1				16			124	212					363	\$ 60,893
Traffic Control/Detour Plans (134 sheets)		1				16		363		532					901	\$ 144,565
Sign & Pavement Delineation Plans & Details (42 sheets)		1				16		138		210					365	\$ 59,429
Signal/Lighting/Electrical Systems Plans & Details		1				8	16	16							41	\$ 8,330
Retaining Walls (10 sheets allowance)		1				4				60		88			153	\$ 19,793
3.2 Bridge Plans																
Cajalco Creek Bridge																
General Plan						1	2								3	\$ 615
General Notes-Index to Plans																
Deck Contours																
Foundation Plan																
Abutments Layout																
Abutment Details																
Bent Layout																
Bent Details																
Typical Sections						1	2								3	\$ 615
Girder Layout																

MANHOUR WORKSHEET

COMPANY TYLin	SCOPE OF WORK Plans, Specs & Estimates	PHASE Phase II
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue		DATE July 26, 2023

TASK	PRINCIPAL IN CHARGE	PROJECT MANAGER	QA/QC	QA/QC-ENVIRONMENTAL	QA/QC-CONSTRUCTIBILITY	TECHNICAL MANAGER	SENIOR CIVIL ENGINEER ROADWAY	SENIOR CIVIL ENGINEER STANDARD/CONV/PD	SENIOR CIVIL ENGINEER UTILITIES	CIVIL ENGINEER	ASSISTANT CIVIL ENGINEER	CADD	PROJECT CONTROLS	VISUALIZATION/BRUSHING	HOURS	COST
Prestressing Notes																
Girder Details & Camber Diagrams																
Utility Details						1	2								3	\$ 615
Deck Drainage Details																
Slope Paving																
Cajalco Creek Box Culvert Replacement																
General Plan						1	2								3	\$ 615
General Notes-Index to Plans																
Foundation Plan																
Box Culvert Details																
3.3 Geotechnical Report						2	8								10	\$ 1,980
3.4 Foundation Report						2									2	\$ 480
3.5 Design Drainage Report						2	8								10	\$ 1,980
3.5 Utility Coordination & Potholing						2	8		16						26	\$ 5,111
3.6 Draft SWPPP						2	2								4	\$ 855
3.7 Specifications/Special Provisions		4				8	40	16	8						76	\$ 15,609
3.8 65% construction cost estimate		4				4	40	40		120					208	\$ 34,081
3.9 65% Submittal		2	60	24	24	80									190	\$ 48,523
Task 4: Draft PS&E (95% PS&E)																
Task 4.1: 90% Checked Bridge Plans/Intermediate Structure PS&E																
4.1.1 Bridge Plans																
Cajalco Creek Bridge																
General Plan						1	2								3	\$ 615
General Notes-Index to Plans																
Deck Contours																
Foundation Plan						1	2								3	\$ 615
Abutments Layout																
Abutment Details																
Bent Layout																
Bent Details																
Typical Sections						1	2								3	\$ 615
Girder Layout																
Prestressing Notes																
Girder Details & Camber Diagrams																
Utility Details						1	2								3	\$ 615
Deck Drainage Details																
Slope Paving																
Cajalco Creek Box Culvert Replacement																
General Plan						1	2								3	\$ 615
General Notes-Index to Plans																
Foundation Plan																
Box Culvert Details																
4.1.2 90% Structures Specifications						1	2								3	\$ 615
4.1.3 90% Quantities & Structures Cost Estimate						1	2								3	\$ 615
4.1.4 Structure Design Calculations																
4.1.5 Structure Independent Check Calculations						1	2								3	\$ 615
4.1.6 Geotechnical Coordination & Foundation Report																
4.1.7 Responses to Agency Comments						1	2								3	\$ 615
Task 4.2 95% Draft Final Structures PS&E																
4.2.1 Bridge Plans																
Cajalco Creek Bridge																
General Plan							1								1	\$ 188
General Notes-Index to Plans																
Deck Contours																
Foundation Plan							1								1	\$ 188
Abutments Layout																
Abutment Details																
Bent Layout																
Bent Details																
Typical Sections							1								1	\$ 188

MANHOUR WORKSHEET

COMPANY TYLin	SCOPE OF WORK Plans, Specs & Estimates	PHASE Phase II
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue		DATE July 26, 2023

TASK	PRINCIPAL IN CHARGE	PROJECT MANAGER	QA/QC	QA/QC-ENVIRONMENTAL	QA/QC-CONSTRUCTIBILITY	TECHNICAL MANAGER	SENIOR CIVIL ENGINEER-ROADWAY	SENIOR CIVIL ENGINEER-UTILITIES	CIVIL ENGINEER	ASSISTANT CIVIL ENGINEER	CALO	PROJECT CONTROLS	VERIFICATION/REVIEWING	HOURS	COST
Girder Layout															
Prestressing Notes															
Girder Details & Camber Diagrams															
Utility Details							1							1	\$ 189
Deck Drainage Details															
Slope Paving															
Cajalco Creek Box Culvert Replacement															
General Plan							1							1	\$ 189
General Notes-Index to Plans															
Foundation Plan															
Box Culvert Details							1							1	\$ 189
4.2.2 95% Structures Specifications							1							1	\$ 189
4.2.3 95% Structures Cost Estimate							1							1	\$ 189
4.2.4 Responses to Agency Comments							1							1	\$ 189
Task 4.3: Roadway 95% PS&E															
4.3.1 Roadway Plans															
Title sheet						1			2		4			7	\$ 979
Strip map						1	2		4		12			19	\$ 2,657
Typical sections						4	72		104		32			213	\$ 32,878
Project Control (by County)															
Layout sheets	1					24	272		448		132			877	\$ 134,216
Profile/Superelevation sheets						16	132		224		88			440	\$ 67,367
Construction Details	1					16	48		790		378			1,233	\$ 148,515
Contour Grading						16	144		482		272			1,704	\$ 220,351
Drainage Plan															
Drainage Profiles															
Drainage Details															
Utility Plans	1					16		632	372		60			1,081	\$ 201,915
Traffic Control/Detour Plans						16		616	932		80			1,644	\$ 258,878
Sign & Pavement Delineation Plans & Details	1					16		244	368		60			689	\$ 108,344
Signal/Lighting/Electrical Systems Plans & Details															
Retaining Walls (10 sheets allowance)						4			60		88			152	\$ 19,429
4.3.2 Responses to Agency Comments	8					8	8	8	8		8			48	\$ 10,724
4.3.3 Geotechnical Report	1					8								9	\$ 2,284
4.3.4 Drainage Report	1					8								9	\$ 2,284
4.3.5 Utility Coordination						8		16						24	\$ 5,450
4.3.6 Draft SWPPP						2								2	\$ 480
4.3.7 Specifications/Special Provisions	2					16	60	16	8		40			102	\$ 20,632
4.3.8 95% construction cost estimate	2					12	24	24						182	\$ 28,344
4.3.9 95% Submittal	1	40	24	24		80								169	\$ 42,753
Task 5: Final PS&E (100% PS&E)															
5.1 Roadway Plans															
Title sheet										1	1			2	\$ 232
Strip map										1	2			3	\$ 348
Typical sections	1					4	32		60		20			117	\$ 17,918
Project Control (by County)															
Layout sheets	1					8	138		256		78			481	\$ 72,509
Profile/Superelevation sheets						4	64		128		40			266	\$ 39,022
Construction Details	1					4	48		790		226			565	\$ 83,640
Contour Grading						4	72		482		272			220	\$ 33,618
Drainage Plan															
Drainage Profiles															
Drainage Details															
Utility Plans	1					4		126	212		32			375	\$ 62,072
Traffic Control/Detour Plans						4		362	632		40			928	\$ 145,956
Sign & Pavement Delineation Plans & Details	1					4		138	210		32			385	\$ 60,257
Signal/Lighting/Electrical Systems Plans & Details															
Retaining Walls (10 sheets allowance)						4			60		88			124	\$ 15,744
5.2 Responses to Agency Comments	2					4	8	8	8		8			38	\$ 7,580
5.3 Geotechnical Report						2								2	\$ 480

MANHOOR WORKSHEET		
COMPANY TYLin	SCOPE OF WORK Plans, Specs & Estimates	PHASE Phase II
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue		DATE July 26, 2023

TASK	PRINCIPAL IN CHARGE	PROJECT MANAGER	QA/QC	QA/QC-ENVIRONMENTAL	QA/QC-CONSTRUCTIBILITY	TECHNICAL MANAGER	SENIOR CIVIL ENGINEER	SENIOR CIVIL ENGINEER - HIGHWAY	SENIOR CIVIL ENGINEER - STATIONING/SURVEYING	SENIOR CIVIL ENGINEER - UTILITIES	CIVIL ENGINEER	ASSISTANT CIVIL ENGINEER	QA/QC	PROJECT CONTROLS	VISUALIZATION/RENDERING	HOURS	COST
5.4 Drainage Report						2										2	\$ 480
5.5 Utility Coordination						4			16							20	\$ 4,490
5.6 Draft SWPPP						2										2	\$ 480
5.7 Specifications/Special Provisions		2				12	40	8	8							70	\$ 14,390
5.8 100% construction cost estimate		2				4	24	24		80	40					174	\$ 26,424
5.9 100% Submittal		1	40	24	24	80										169	\$ 42,753
5.10 Prepare Resident Engineer file, grid grades, cross sections		1				8	40			120	120					289	\$ 40,237
Task 6: RW Acquisitions																	
6.1 Right of Way Requirements Map (2 submittals max)		2				8	24				80	24				138	\$ 19,197
6.2 Right of Way Cost Estimates and Data Sheets (by County)																	
6.3 Appraisals (by County)																	
6.4 Right of Entry Permits (by County)																	
6.5 Acquisition & Negotiation (by County)																	
6.6 Relocation Assistance (by County)																	
6.7 Easement Coordination (by County)																	
6.8 Right-of-Way Certification (by County)																	
6.9 Property Management (by County)																	
6.10 Eminent Domain Support (by County)																	
Task 7: Public Outreach																	
7.1 Hotline, email, website-establish/maintain																	
7.2 Collateral (fact sheet, FAQ, property acquisition overview)		1				4	4									9	\$ 2,074
7.3 Stakeholder log		2				2										4	\$ 1,208
7.4 Stakeholder presentations		12				24	24					40				100	\$ 19,264
7.5 Maps/canvass owners/neighbors												16				16	\$ 1,854
7.6 Schedule/conduct one-on-one meetings		24				80	80									184	\$ 42,940
Task 8: Coordination with County Environmental Consultant																	
8.1 Coordination meetings with ICF & County		54				54	54									162	\$ 42,747
8.2 Input to regulatory agency permits by ICF		2				16	40		8			60				126	\$ 20,786
8.3 Visualizations/Renderings						2	8					8		180		198	\$ 47,591

\$ 4,399,563
\$ 4,672,680

MANHOUR WORKSHEET

COMPANY TYLin	SCOPE OF WORK Bid Support	PHASE Phase III
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue	DATE July 26, 2023	

TASK	PRINCIPAL-IN-CHARGE	PROJECT MANAGER	QA/QC	QA/QC-ENVIRONMENTAL	QA/QC-CONSTRUCTABILITY	TECHNICAL MANAGER	SENIOR CIVIL ENGINEER-ROADWAY	SENIOR CIVIL ENGINEER-STAGING-SIGNS-PD	SENIOR CIVIL ENGINEER-UTILITIES	CIVIL ENGINEER	ASSISTANT CIVIL ENGINEER	CADD	PROJECT CONTROLS	VISUALIZATION/RENDERING	HOURS	COST
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	\$416.63	\$364.09	\$270.31	\$228.93	\$286.86	\$239.97	\$187.56	\$190.32	\$220.66	\$137.91	\$115.85	\$115.85	\$143.43	\$248.24		
Total Manhours		22				58	10	10	10	40		40			190	

Task 1 Attend Pre-Bid Meeting		2				2	2	2	2						10	\$ 2,405
Task 2 Respond to Inquiries		2				8	8	8	8						34	\$ 7,436
Task 3 Issue Addenda (2 max)		2				24				40	40				106	\$ 16,638
Task 4 Coordination with County		16				24									40	\$ 11,585

MANHOUR WORKSHEET

COMPANY: TYLin	SCOPE OF WORK: Construction Support	PHASE: Phase IV
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue		DATE: July 26, 2023

TASK	PRINCIPAL-IN-CHARGE	PROJECT MANAGER	QA/QC	QA/QC-ENVIRONMENTAL	QA/QC-CONSTRUCT/FABRITY	TECHNICAL MANAGER	SENIOR CIVIL ENGINEER-ROADWAY	SENIOR CIVIL ENGINEER-STAGING-SIGNS-PO	SENIOR CIVIL ENGINEER-UTILITIES	CIVIL ENGINEER	ASSISTANT CIVIL ENGINEER	CADD	PROJECT CONTROL &	VISUALIZATION/RENDERING	HOURS	COST
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	\$416.63	\$364.09	\$270.31	\$228.93	\$286.86	\$239.97	\$187.56	\$190.32	\$220.66	\$137.91	\$115.85	\$115.85	\$143.43	\$248.24		
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Total Manhours	46					358	6	6	6	540	469				1,431	
Task 1 Pre-construction meeting	6					6	6	6	6						30	\$ 7,216
Task 2 Review/respond to Requests for Information	16					166				312					484	\$ 86,289
Task 3 Shop drawing/contract change order assessments																
Task 4 Additional drawings at County's request						8				8	8				24	\$ 3,950
Task 5 Site visits	8					24				24					56	\$ 11,982
Task 6 Coordination for DSDC	16					166				166					328	\$ 64,775
Task 7 As-built plans						8				40	461				509	\$ 60,841

Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Su

October 17, 2023

COMPANIES	PHASE I	PHASE II	PHASE III	PHASE IV	TOTAL
TYLin Structures		\$ 888,873.47	\$ 27,139.59	\$ 134,412.20	\$ 1,050,425.26
TOTAL		\$ 888,873.47	\$ 27,139.59	\$ 134,412.20	\$ 1,050,425.26

- Phase I **Preliminary Engineering & Environmental**
- Phase II **Plans, Specs & Estimates**
- Phase III **Bid Support**
- Phase IV **Construction Support**

FEE PROPOSAL WORKSHEET

COMPANY: TYLin	SCOPE OF WORK: Project Summary	PHASE: All Phases
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue		DATE: October 17, 2023

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Dina Kasawdish	Sr. Bridge Engineer I	1,302	@	\$69.00	\$89,838.00
Kumar Ghosh	Lead Bridge Engineer	416	@	\$97.00	\$40,352.00
	Sr. Bridge Engineer II	340	@	\$95.00	\$32,300.00
	Engineer II	390	@	\$51.00	\$19,890.00
	Bridge Engineer II	606	@	\$69.00	\$41,814.00
	Design Technician III	712	@	\$73.00	\$51,976.00
	Design Technician II	892	@	\$61.00	\$54,412.00
	Senior Construction Engineer II	68	@	\$85.00	\$5,780.00
	Bridge Engineer I	444	@	\$59.00	\$26,196.00
		TOTAL HOURS:		5,170	TOTAL AMOUNT: \$362,558.00

MULTIPLIERS

ESCALATION @	5.00%	(Rates Vary by Phase)	\$18,127.90
OVERHEAD @	150.72%	(of Direct Labor + Escalation)	\$573,769.79
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE)	10.0%		\$95,445.57
			TOTAL MULTIPLIERS: \$687,343.26

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Mileage	800	EA	@	\$0.655	\$524.00
					TOTAL ODC'S: \$524.00

SUB CONSULTANT SERVICES

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL

TOTAL SUBCONSULTANT SERVICES:

GRAND TOTAL \$1,050,425.26

FEE PROPOSAL WORKSHEET

COMPANY: TYLin	SCOPE OF WORK: Plans, Specs & Estimates	PHASE: Phase II
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue		DATE: October 17, 2023

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Dina Kasawdish	Sr. Bridge Engineer I	998	@	\$69.00	\$68,862.00
Kumar Ghosh	Lead Bridge Engineer	384	@	\$97.00	\$37,248.00
	Sr. Bridge Engineer II	316	@	\$95.00	\$30,020.00
	Engineer II	390	@	\$51.00	\$19,890.00
	Bridge Engineer II	606	@	\$69.00	\$41,814.00
	Design Technician III	712	@	\$73.00	\$51,976.00
	Design Technician II	632	@	\$61.00	\$38,552.00
	Senior Construction Engineer II			\$85.00	
	Bridge Engineer I	312	@	\$59.00	\$18,408.00
		TOTAL HOURS:		4,350	TOTAL AMOUNT: \$306,770.00

MULTIPLIERS

ESCALATION @	5.00%	(of Direct Labor)	\$15,338.50
OVERHEAD @	150.72%	(of Direct Labor + Escalation)	\$485,481.93
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE)	10.0%		\$80,759.04
			TOTAL MULTIPLIERS: \$581,579.47

OTHER DIRECT COSTS

... Billed at Actual Cost ...

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Mileage	800	EA	@	\$0.66	\$524.00
					TOTAL ODC'S: \$524.00

SUB CONSULTANT SERVICES

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL

TOTAL SUBCONSULTANT SERVICES:

TOTAL \$888,873.47

FEE PROPOSAL WORKSHEET

COMPANY: TYLin	SCOPE OF WORK: Bid Support	PHASE: Phase III
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue		DATE: October 17, 2023

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Dina Kasawdish	Sr. Bridge Engineer I	72	@	\$69.00	\$4,968.00
Kumar Ghosh	Lead Bridge Engineer	20	@	\$97.00	\$1,940.00
	Sr. Bridge Engineer II	16	@	\$95.00	\$1,520.00
	Engineer II			\$51.00	
	Bridge Engineer II			\$69.00	
	Design Technician III			\$73.00	
	Design Technician II			\$61.00	
	Senior Construction Engineer II			\$85.00	
	Bridge Engineer I	16	@	\$59.00	\$944.00
		TOTAL HOURS:			\$9,372.00

MULTIPLIERS

ESCALATION @	5.00%	(of Direct Labor)	\$468.60
OVERHEAD @	150.72%	(of Direct Labor + Escalation)	\$14,831.75
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE)	10.0%		\$2,467.24
TOTAL MULTIPLIERS:			\$17,767.59

OTHER DIRECT COSTS

... Billed at Actual Cost ...

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mileage		EA	\$0.66	

TOTAL ODC'S:

SUB CONSULTANT SERVICES

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL

TOTAL SUBCONSULTANT SERVICES:

TOTAL \$27,139.59

FEE PROPOSAL WORKSHEET

COMPANY: TYLin	SCOPE OF WORK: Construction Support	PHASE: Phase IV
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue		DATE: October 17, 2023

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Dina Kasawdish	Sr. Bridge Engineer I	232	@	\$69.00	\$16,008.00
Kumar Ghosh	Lead Bridge Engineer	12	@	\$97.00	\$1,164.00
	Sr. Bridge Engineer II	8	@	\$95.00	\$760.00
	Engineer II			\$51.00	
	Bridge Engineer II			\$69.00	
	Design Technician III			\$73.00	
	Design Technician II	260	@	\$61.00	\$15,860.00
	Senior Construction Engineer II	68	@	\$85.00	\$5,780.00
	Bridge Engineer I	116	@	\$59.00	\$6,844.00
		TOTAL HOURS:		696	
				TOTAL AMOUNT:	\$46,416.00

MULTIPLIERS

ESCALATION @	5.00%	(of Direct Labor)	\$2,320.80
OVERHEAD @	150.72%	(of Direct Labor + Escalation)	\$73,456.10
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE)	10.0%		\$12,219.29
			TOTAL MULTIPLIERS: \$87,996.20

OTHER DIRECT COSTS

... Billed at Actual Cost ...

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mileage		EA	\$0.66	
TOTAL ODC'S:				

SUB CONSULTANT SERVICES

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL

TOTAL SUBCONSULTANT SERVICES:

TOTAL \$134,412.20

MANHOOR WORKSHEET		
COMPANY TYLin	SCOPE OF WORK Manhour Summary	PHASE All Phases
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue		DATE October 17, 2023

TASK	Resource Categories									Hours	
	SR. BRIDGE ENGINEER I	LEAD BRIDGE ENGINEER	SR. BRIDGE ENGINEER II	ENGINEER II	BRIDGE ENGINEER II	DESIGN TECHNICIAN III	DESIGN TECHNICIAN II	SENIOR CONSTRUCTION ENGINEER II	BRIDGE ENGINEER I		(Top & Bottom)

	\$190.30	\$267.52	\$262.00	\$140.65	\$190.30	\$201.33	\$168.23	\$234.42	\$162.72			
PHASE TOTALS	1,302	416	340	390	606	712	892	68	444		5,170	5,170

PHASE I												
PHASE II	998	384	316	390	606	712	632		312		4,350	4,350
PHASE III	72	20	16								124	124
PHASE IV	232	12	8				260	68	116		696	696

TASK	Resource Categories									Hours	
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PHASE TOTALS		
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PHASE I
PHASE II
PHASE III
PHASE IV

MANHOUR WORKSHEET

COMPANY: TYLin	SCOPE OF WORK: Plans, Specs & Estimates	PHASE: Phase II
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue		DATE: October 17, 2023

TASK	SR. BRIDGE ENGINEER I	LEAD BRIDGE ENGINEER	SR. BRIDGE ENGINEER II	ENGINEER II	BRIDGE ENGINEER II	DESIGN TECHNICIAN III	DESIGN TECHNICIAN II	SENIOR CONSTRUCTION ENGINEER II	BRIDGE ENGINEER I	HOURLY RATE	COST
	\$190.70	\$207.12	\$262.00	\$140.65	\$100.30	\$201.33	\$168.25	\$234.42	\$162.72		

Total Manhours	998	384	316	390	606	712	632	312			4,350
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TASK	SR. BRIDGE ENGINEER I	LEAD BRIDGE ENGINEER	SR. BRIDGE ENGINEER II	ENGINEER II	BRIDGE ENGINEER II	DESIGN TECHNICIAN III	DESIGN TECHNICIAN II	SENIOR CONSTRUCTION ENGINEER II	BRIDGE ENGINEER I	HOURLY RATE	COST
Task 1: Project Management/Administration											
1.1 Project Management/Administration											
1.2 Schedules											
1.3 Progress Reports											
1.4 Design QMP											
1.5 Project Management Plan											
1.6 PDT Meetings											
Task 2: GAD/35% Plans & Estimate											
2.1 Data Collection	6	2	12								20 \$ 3,365
2.2 RW Engineering Services											
2.3 Utility Coordination & Base Plan											
2.4 Encroachment permit coordination											
2.5 Design Surveys, Aerial Mapping, Right of Entry Coordination with County											
2.6 Preliminary construction cost estimate	6	2	20								28 \$ 4,490
2.7 Geometric refinements											
2.8 Nonstandard design features identification & approvals											
2.9 Drainage Pre-Design Validation/Stormwater Management Coord											
2.10 Geotechnical Exploration											
2.11 Preliminary Foundation Report	12	4									16 \$ 3,354
2.12 Structure Type Selection (Cajalco Creek Bridge)	40		40	16	40						136 \$ 24,336
2.13 Bridge Type Selection Meeting & Approval	24	12		24	24	8					92 \$ 17,331
2.14 Hazardous Waste											
2.15 EMMVD Evaluations & Coordination											
2.16 Geometric Approval Drawings											
2.17 Planting Concept Strip Plans											
2.18 35% submittal construction cost estimate	6			20							26 \$ 4,948
2.19 35% submittal	12			4							16 \$ 3,045
Task 3: Intermediate PS&E (65% PS&E)											
3.1 Roadway Plans											
Title sheet											
Strip map											
Typical sections											
Project Control (by County)											
Layout sheets											
Profile/Superelevation sheets											
Construction Details											
Contour Grading											
Drainage Plan											
Drainage Profiles											
Drainage Details											
Utility Plans											
Traffic Control/Detour Plans											
Sign & Pavement Delineation Plans & Details											
Signal/Lighting/Electrical Systems Plans & Details											
Irrigation & Planting Plans & Details											
3.2 Bridge Plans- Includes Design Calculations											
Cajalco Creek Bridge											
General Plan	24	8	4		24	24					84 \$ 16,139
General Notes-Index to Plans	24	8	4		16	16					68 \$ 13,183

MANHOUR WORKSHEET

COMPANY TYLin	SCOPE OF WORK: Plans, Specs & Estimates	PHASE: Phase II
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue		DATE: October 17, 2023

TASK											HOURS	COST	
	SR. BRIDGE ENGINEER I	LEAD BRIDGE ENGINEER	SR. BRIDGE ENGINEER II	ENGINEER II	BRIDGE ENGINEER II	DESIGN TECHNICIAN III	DESIGN TECHNICIAN II	SENIOR CONSTRUCTION ENGINEER II	BRIDGE ENGINEER I				
Deck Contours	20	8		4		16	16					64	\$ 12,422
Foundation Plan	20	8		4		16	24					72	\$ 13,768
Abutments Layout	20	8		4		16	24					72	\$ 13,768
Abutment Details	20	8		4		16	24					72	\$ 13,768
Bent Layout	20	8		4		16	24					72	\$ 13,768
Bent Details	20	8		4		16	24					72	\$ 13,768
Typical Sections	20	8		4		16	24					72	\$ 13,768
Girder Layout	20	8		4		16	24					72	\$ 13,768
Prestressing Notes	20	8		4		16	24					72	\$ 13,768
Girder Details & Camber Diagrams	20	8		4		16	24					72	\$ 13,768
Utility Details	20	8		4		16	24					72	\$ 13,768
Deck Drainage Details	20	8		4		16	24					72	\$ 13,768
Slope Paving	20	6		4		16	24					70	\$ 13,233
Cajalco Creek Box Culvert Replacement													
General Plan	16	20		8		16	32					92	\$ 18,125
General Notes-Index to Plans	12	20		8		12	24					76	\$ 15,213
Foundation Plan	16	20		8		16	24					84	\$ 16,779
Box Culvert Details	16	20		8		16	24					84	\$ 16,779
3.3 Geotechnical Report													
3.4 Foundation Report	8	2	8	4								22	\$ 4,716
3.5 Design Drainage Report													
3.5 Utility Coordination & Potholing	4											4	\$ 761
3.6 Draft SWPPP													
3.7 Specifications/Special Provisions	24	20										44	\$ 9,917
3.8 65% construction cost estimate	24	8		48								80	\$ 13,459
3.9 65% Submittal	24	8		24								56	\$ 10,083
Task 4: Draft PS&E (95% PS&E)													
Task 4.1: 90% Checked Bridge Plans/Intermediate Structure PS&E													
4.1.1 Bridge Plans- Includes Independent Check Calculations													
Cajalco Creek Bridge													
General Plan	16		12		12	16	8		16			80	\$ 15,643
General Notes-Index to Plans	8		12		8	8	4		8			48	\$ 9,774
Deck Contours	8		12		8	8	4		8			48	\$ 9,774
Foundation Plan	8		12		16	8	4		8			56	\$ 11,296
Abutments Layout	8		12		16	8	4		8			56	\$ 11,296
Abutment Details	8		12		16	8	4		8			56	\$ 11,296
Bent Layout	8		12		16	8	4		8			56	\$ 11,296
Bent Details	8		12		16	8	4		8			56	\$ 11,296
Typical Sections	8		12		16	8	4		8			56	\$ 11,296
Girder Layout	8		12		16	8	4		8			56	\$ 11,296
Prestressing Notes	8		12		16	8	4		8			56	\$ 11,296
Girder Details & Camber Diagrams	8		12		16	8	4		8			56	\$ 11,296
Utility Details	8		12		16	8	4		8			56	\$ 11,296
Deck Drainage Details	8		12		16	8	4		8			56	\$ 11,296
Slope Paving	8		12		16	8	4		8			56	\$ 11,296
Cajalco Creek Box Culvert Replacement													
General Plan	8		4		16	24	8		20			80	\$ 15,047
General Notes-Index to Plans	4		4		16	16	4		20			64	\$ 12,002
Foundation Plan	6		4		12	16	4		20			62	\$ 11,622
Box Culvert Details	6		4		12	16	4		20			62	\$ 11,622
4.1.2 90% Structures Specifications	8	16	16									40	\$ 9,995
4.1.3 90% Quantities & Structures Cost Estimate	8				40							96	\$ 16,945
4.1.4 Structure Design Calculations	24	4							20			48	\$ 8,892
4.1.5 Structure Independent Check Calculations			4		24				20			48	\$ 8,869

MANHOOR WORKSHEET

COMPANY: TYLin	SCOPE OF WORK: Plans, Specs & Estimates	PHASE: Phase II
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue		DATE: October 17, 2023

TASK											HOURS	COST	
	SR. BRIDGE ENGINEER I	LEAD BRIDGE ENGINEER	SR. BRIDGE ENGINEER II	ENGINEER II	BRIDGE ENGINEER II	DESIGN TECHNICIAN III	DESIGN TECHNICIAN II	SENIOR CONSTRUCTION ENGINEER II	BRIDGE ENGINEER I				
4.1.6 Geotechnical Coordination & Foundation Report	24	4	4		16							48	\$ 9,730
4.1.7 Responses to Agency Comments	24	4	4		16					16		64	\$ 12,333
Task 4.2 95% Draft Final Structures PS&E													
4.2.1 Bridge Plans													
<u>Cajalco Creek Bridge</u>													
General Plan	12	6	4	6	8	12	8					56	\$ 11,065
General Notes-Index to Plans	8	4	4	4	8	8	4					40	\$ 8,009
Deck Contours	8	4	4	4	8	12	4					44	\$ 8,814
Foundation Plan	8	4	4	4	8	8	4					40	\$ 8,009
Abutments Layout	8	4	4	4	8	8	4					40	\$ 8,009
Abutment Details	8	4	4	4	8	8	4					40	\$ 8,009
Bent Layout	8	4	4	4	8	8	4					40	\$ 8,009
Bent Details	8	4	4	4	8	8	4					40	\$ 8,009
Typical Sections	8	4	4	4	8	8	4					40	\$ 8,009
Girder Layout	8	4	4	4	8	8	4					40	\$ 8,009
Prestressing Notes	8	4	4	4	8	8	4					40	\$ 8,009
Girder Details & Camber Diagrams	8	4	4	4	8	8	4					40	\$ 8,009
Utility Details	8	4	4	4	8	8	4					40	\$ 8,009
Deck Drainage Details	8	4	4	4	8	8	4					40	\$ 8,009
Slope Paving	8	4	4	4	8	8	4					40	\$ 8,009
<u>Cajalco Creek Box Culvert Replacement</u>													
General Plan	4	8	2	12	8	8	12					54	\$ 10,265
General Notes-Index to Plans	4	4	2	12	6	4	8					40	\$ 7,336
Foundation Plan	4	4	2	12	6	4	8					40	\$ 7,336
Box Culvert Details	4	4	2	12	6	4	8					40	\$ 7,336
4.2.2 95% Structures Specifications	8		8									16	\$ 3,618
4.2.3 95% Structures Cost Estimate	8			16	24							48	\$ 8,340
4.2.4 Responses to Agency Comments	8	4	8									20	\$ 4,688
Task 4.3: Roadway 95% PS&E													
4.3.1 Roadway Plans													
Title sheet													
Strip map													
Typical sections													
Project Control (by County)													
Layout sheets													
Profile/Superelevation sheets													
Construction Details													
Contour Grading													
Drainage Plan													
Drainage Profiles													
Drainage Details													
Utility Plans													
Traffic Control/Detour Plans													
Sign & Pavement Delineation Plans & Details													
Signal/Lighting/Electrical Systems Plans & Details													
Irrigation & Planting Plans & Details													
4.3.2 Responses to Agency Comments													
4.3.3 Geotechnical Report													
4.3.4 Drainage Report													
4.3.5 Utility Coordination													
4.3.6 Draft SWPPP													
4.3.7 Specifications/Special Provisions													
4.3.8 95% construction cost estimate													

MANHOUR WORKSHEET

COMPANY TYLin	SCOPE OF WORK: Plans, Specs & Estimates	PHASE Phase II
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue		DATE: October 17, 2023

TASK											HOURS	COST	
	Sr. BRIDGE ENGINEER I	LEAD BRIDGE ENGINEER	Sr. BRIDGE ENGINEER II	ENGINEER II	BRIDGE ENGINEER II	DESIGN TECHNICIAN III	DESIGN TECHNICIAN II	SENIOR CONSTRUCTION ENGINEER II	BRIDGE ENGINEER I				
4.3.9 95% Submittal													
Task 5: Final PS&E (100% PS&E)													
5.1 Roadway Plans													
Title sheet													
Strip map													
Typical sections													
Project Control (by County)													
Layout sheets													
Profile/Superelevation sheets													
Construction Details													
Contour Grading													
Drainage Plan													
Drainage Profiles													
Drainage Details													
Utility Plans													
Traffic Control/Detour Plans													
Sign & Pavement Delineation Plans & Details													
Signal/Lighting/Electrical Systems Plans & Details													
Irrigation & Planting Plans & Details													
5.2 Responses to Agency Comments													
5.3 Geotechnical Report													
5.4 Drainage Report													
5.5 Utility Coordination													
5.6 Draft SWPPP													
5.7 Specifications/Special Provisions													
5.8 100% construction cost estimate													
5.9 100% Submittal													
Task 6: RW Acquisitions													
6.1 Right of Way Requirements Map (2 submittals max)													
6.2 Right of Way Cost Estimates and Data Sheets													
6.3 Appraisals													
6.3.1 Appraisal Reports													
6.3.2 Review/coordination of Appraisal Maps by County													
6.3.3 Review/coordination of Plats/Legals by County													
6.4 Right of Entry Permits													
6.5 Acquisition & Negotiation													
6.6 Relocation Assistance													
6.7 Escrow Coordination													
6.8 Right-of-Way Certification													
6.9 Property Management													
6.10 Eminent Domain Support													
Task 7: Public Outreach													
7.1 Hotline, email, website-establish/maintain													
7.2 Collateral (fact sheet, FAQ, property acquisition overview)													
7.3 Stakeholder log													
7.4 Stakeholder presentations												12	\$ 2,592
7.5 Map/canvass owners/neighbors												16	\$ 3,133
7.6 Schedule/conduct one-on-one meetings												12	\$ 2,592
Task 8: Coordination with County Environmental Consultant													
8.1 Coordination meetings with ICF & County												12	\$ 2,592
8.2 Input to regulatory agency permits by ICF												6	\$ 1,296

MANHOUR WORKSHEET

COMPANY TYLin	SCOPE OF WORK Construction Support	PHASE Phase IV
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue		DATE October 17, 2023

TASK	Sr. Bridge Engineer I	Lead Bridge Engineer	Sr. Bridge Engineer II	Engineer II	Bridge Engineer II	Design Technician III	Design Technician II	Senior Construction Engineer II	Bridge Engineer I			HOURS	COST
	\$190.30	\$267.52	\$262.00	\$140.65	\$190.30	\$201.33	\$168.23	\$234.42	\$162.72				

Total Manhours	232	12	8			260	68	116				696	
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Task 1 Pre-construction meeting	8	4						4				16	\$ 3,530
Task 2 Review/respond to Requests for Information	60							24	40			124	\$ 23,553
Task 3 Shop drawing/contract change order assessment	60					120	24	40				244	\$ 43,741
Task 4 Additional drawings at County's request	24					60		20				104	\$ 17,915
Task 5 Site visits	24	8	8					16	16			72	\$ 15,158
Task 6 Coordination for DSDC	40											40	\$ 7,612
Task 7 As-built plans	16					80						96	\$ 16,503

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Earth Mechanics, Inc.	SCOPE OF WORK:	PHASE: All Phases
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE: 7/25/2023

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT	
Eric Brown	Principal	48	@ \$97.70	\$4,689.60	
Pat Wilson	Sr Engineer	42	@ \$69.30	\$2,910.60	
Michael Hoshiyama	Sr Engineering Geologist	92	@ \$60.60	\$5,575.20	
Dane Nicklaus	Project Engineer	138	@ \$51.10	\$7,051.80	
Bernardo Ambriz	Sr Staff Engineer	244	@ \$47.00	\$11,468.00	
Thomas Feistel	Sr Staff Geologist	308	@ \$44.70	\$13,767.60	
Doug Brown	Staff Engineer	340	@ \$33.60	\$11,424.00	
Edson Amaro	Technician	200	@ \$26.00	\$5,200.00	
		TOTAL HOURS	1,412	TOTAL DIRECT LABOR	\$62,086.80

MULTIPLIERS

ESCALATION @	4.00%	(Rates Vary by Phase)	\$427.52	
OVERHEAD @	91.92%	(of Direct Labor + Escalation)	\$57,463.16	
PAYROLL ADDITIVES @	88.05%	(of Direct Labor + Escalation)	\$55,043.86	
PROFIT (FIXED FEE)	10.0%		\$17,502.13	
			TOTAL MULTIPLIERS	\$130,436.68

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT	
Drill Rig Rental	35	Day	@ \$6,500.00	\$227,500.00	
Traffic Control	12	Day	@ \$2,500.00	\$30,000.00	
Drum Testing and Disposal	40	Drum	@ \$325.00	\$13,000.00	
Mileage	3000	Mile	@ \$0.58	\$1,725.00	
Misc Drilling Expenses	1	Lump Sum	@ \$3,000.00	\$3,000.00	
Lab Tesing	1065	ft	@ \$12.00	\$12,780.00	
				TOTAL ODC'S	\$288,005.00

TOTAL **\$480,528.48**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Earth Mechanics, Inc.	SCOPE OF WORK: Plans, Specs & Estimates	PHASE: Phase II
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE: 7/25/2023

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT	
Eric Brown	Principal	24	@ \$97.70	\$2,344.80	
Pat Wilson	Sr Engineer	32	@ \$69.30	\$2,217.60	
Michael Hoshiyama	Sr Engineering Geologist	90	@ \$60.60	\$5,454.00	
Dane Nicklaus	Project Engineer	84	@ \$51.10	\$4,292.40	
Bernardo Ambriz	Sr Staff Engineer	188	@ \$47.00	\$8,836.00	
Thomas Feistel	Sr Staff Geologist	308	@ \$44.70	\$13,767.60	
Doug Brown	Staff Engineer	340	@ \$33.60	\$11,424.00	
Edson Amaro	Technician	200	@ \$26.00	\$5,200.00	
		TOTAL HOURS	1,266	TOTAL DIRECT LABOR	\$53,536.40

MULTIPLIERS

ESCALATION @	(of Direct Labor)			
OVERHEAD @	91.92%	(of Direct Labor + Escalation)	\$49,210.66	
PAYROLL ADDITIVES @	88.05%	(of Direct Labor + Escalation)	\$47,138.80	
PROFIT (FIXED FEE)	10.0%		\$14,988.59	
			TOTAL MULTIPLIERS	\$111,338.04

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT	
Drill Rig Rental	35	Day	\$6,500.00	\$227,500.00	
Traffic Control	12	Day @	\$2,500.00	\$30,000.00	
Drum Testing and Disposal	40	Drum @	\$325.00	\$13,000.00	
Mileage	3000	Mile @	\$0.58	\$1,725.00	
Misc Drilling Expenses	1	Lump Sum @	\$3,000.00	\$3,000.00	
Lab Tesing	1065	ft @	\$12.00	\$12,780.00	
				TOTAL ODC'S	\$288,005.00

TOTAL **\$452,879.44**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Earth Mechanics, Inc.	SCOPE OF WORK: Bid Support	PHASE: Phase III
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE: 7/25/2023

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Eric Brown	Principal	2	@ \$97.70	\$195.40
Pat Wilson	Sr Engineer		\$69.30	
Michael Hoshiyama	Sr Engineering Geologist	2	@ \$60.60	\$121.20
Dane Nicklaus	Project Engineer	2	@ \$51.10	\$102.20
Bernardo Ambriz	Sr Staff Engineer		\$47.00	
Thomas Feistel	Sr Staff Geologist		\$44.70	
Doug Brown	Staff Engineer		\$33.60	
Edson Amaro	Technician		\$26.00	
TOTAL HOURS		6	TOTAL DIRECT LABOR	\$418.80

MULTIPLIERS

ESCALATION @	5.00%	(of Direct Labor)	\$20.94
OVERHEAD @	91.92%	(of Direct Labor + Escalation)	\$404.21
PAYROLL ADDITIVES @	88.05%	(of Direct Labor + Escalation)	\$387.19
PROFIT (FIXED FEE)	10.0%		\$123.11
TOTAL MULTIPLIERS			\$935.45

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Drill Rig Rental		Day	\$6,500.00	
Traffic Control		Day	\$2,500.00	
Drum Testing and Disposal		Drum	\$325.00	
Mileage		Mile	\$0.58	
Misc Drilling Expenses		Lump Sum	\$3,000.00	
Lab Tesing		ft	\$12.00	
TOTAL ODC'S				

TOTAL ODC'S

TOTAL **\$1,354.25**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Earth Mechanics, Inc.	SCOPE OF WORK: Construction Support	PHASE: Phase IV
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE: 7/25/2023

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT	
Eric Brown	Principal	22	@ \$97.70	\$2,149.40	
Pat Wilson	Sr Engineer	10	@ \$69.30	\$693.00	
Michael Hoshiyama	Sr Engineering Geologist		\$60.60		
Dane Nicklaus	Project Engineer	52	@ \$51.10	\$2,657.20	
Bernardo Ambriz	Sr Staff Engineer	56	@ \$47.00	\$2,632.00	
Thomas Feistel	Sr Staff Geologist		\$44.70		
Doug Brown	Staff Engineer		\$33.60		
Edson Amaro	Technician		\$26.00		
		TOTAL HOURS	140	TOTAL DIRECT LABOR	\$8,131.60

MULTIPLIERS

ESCALATION @	5.00%	(of Direct Labor)	\$406.58	
OVERHEAD @	91.92%	(of Direct Labor + Escalation)	\$7,848.30	
PAYROLL ADDITIVES @	88.05%	(of Direct Labor + Escalation)	\$7,517.87	
PROFIT (FIXED FEE)	10.0%		\$2,390.43	
			TOTAL MULTIPLIERS	\$18,163.18

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT	
Drill Rig Rental		Day	\$6,500.00		
Traffic Control		Day	\$2,500.00		
Drum Testing and Disposal		Drum	\$325.00		
Mileage		Mile	\$0.58		
Misc Drilling Expenses		Lump Sum	\$3,000.00		
Lab Tesing		ft	\$12.00		
				TOTAL ODC'S	

TOTAL ODC'S

TOTAL **\$26,294.78**

SUBCONSULTANT MANHOOR WORKSHEET SUMMARY

COMPANY Earth Mechanics, Inc.	SCOPE OF WORK	PHASE All Phases
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE July 25, 2023

TASK	PRINCIPAL	SR ENGINEER	SR ENGINEERING GEOLOGIST	PROJECT ENGINEER	SR STAFF ENGINEER	SR STAFF GEOLOGIST	STAFF ENGINEER	TECHNICIAN										HOURS
	\$300.88	\$213.42	\$186.63	\$157.37	\$144.74	\$137.66	\$103.48	\$80.07										

PHASE TOTALS	24	42	92	138	244	308	340	200										1,388
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PHASE I																		
PHASE II		32	90	84	188	308	340	200										1,242
PHASE III	2		2	2														6
PHASE IV	22	10		52	56													140

SUBCONSULTANT MANHOOR WORKSHEET

COMPANY Earth Mechanics, Inc.	SCOPE OF WORK Plans, Specs & Estimates	PHASE Phase II
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE July 25, 2023

TASK	PRINCIPAL	SR ENGINEER	SR ENGINEERING GEOLOGIST	PROJECT ENGINEER	SR STAFF ENGINEER	SR STAFF ENGINEER	STAFF GEOLOGIST	STAFF ENGINEER	TECHNICIAN	HOURS	COST
	\$300.89	\$213.42	\$196.53	\$157.37	\$144.74	\$137.96	\$103.48	\$80.07			

Total Manhours	24	32	90	84	188	308	340	200	1,266
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Task 1: Project Management/Administration											
1.1 Project Management/Administration											
1.2 Schedules											
1.3 Progress Reports											
1.4 Design QMP											
1.5 Project Management Plan											
1.6 PDT Meetings											
Task 2: GAD/35% Plans & Estimate											
2.1 Data Collection											
2.2 R/W Engineering Services											
2.3 Utility Coordination & Base Plan											
2.4 Encroachment permit coordination											
2.5 Design Surveys, Aerial Mapping, Right of Entry Coordination with County											
2.6 Preliminary construction cost estimate											
2.7 Geometric refinements											
2.8 Nonstandard design features identification & approvals											
2.9 Drainage Pre-Design Validation/Stormwater Management Coord											
2.10 Geotechnical Exploration	4	4	24	16	40	100	120	200		508	\$ 87,042
2.11 Preliminary Foundation Report	2		4	8	24	12	24			74	\$ 10,216
2.12 Structure Type Selection (Cajalco Creek Bridge)											
2.13 Bridge Type Selection Meeting & Approval											
2.14 Hazardous Waste											
2.15 EMWD Evaluations & Coordination											
2.16 Geometric Approval Drawings											
2.17 Planting Concept Strip Plans											
2.18 35% submittal construction cost estimate											
2.19 35% submittal											
Task 3: Intermediate PS&E (65% PS&E)											
3.1 Roadway Plans											
Title sheet											
Strip map											
Typical sections											
Project Control (by County)											
Layout sheets											
Profile/Superelevation sheets											
Construction Details											
Contour Grading											
Drainage Plan											
Drainage Profiles											
Drainage Details											
Utility Plans											
Traffic Control/Detour Plans											
Sign & Pavement Delineation Plans & Details											

SUBCONSULTANT MANHOOR WORKSHEET

COMPANY: Earth Mechanics, Inc.	SCOPE OF WORK: Plans, Specs & Estimates	PHASE: Phase II
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE: July 25, 2023

TASK	PERSONNEL								HOURS	COST
	PRINCIPAL	SR ENGINEER	SR ENGINEERING GEOLOGIST	PROJECT ENGINEER	SR STAFF ENGINEER	SR STAFF ENGINEER	STAFF ENGINEER	TECHNICIAN		
Signal/Lighting/Electrical Systems Plans & Details										
Irrigation & Planting Plans & Details										
3.2 Bridge Plans										
Cajalco Creek Bridge										
General Plan										
General Notes-Index to Plans										
Deck Contours										
Foundation Plan										
Abutments Layout										
Abutment Details										
Bent Layout										
Bent Details										
Typical Sections										
Girder Layout										
Prestressing Notes										
Girder Details & Camber Diagrams										
Utility Details										
Deck Drainage Details										
Slope Paving										
Cajalco Creek Box Culvert Replacement										
General Plan										
General Notes-Index to Plans										
Foundation Plan										
Box Culvert Details										
3.3 Geotechnical Report	4	8	42	28	64	80	80		306	\$ 43,710
3.4 Foundation Report	8	16	16	24	32	80	80		256	\$ 36,508
3.5 Design Drainage Report										
3.5 Utility Coordination & Potholing										
3.6 Draft SWPPP										
3.7 Specifications/Special Provisions										
3.8 65% construction cost estimate										
3.9 65% Submittal										
Task 4: Draft PS&E (95% PS&E)										
Task 4.1: 90% Checked Bridge Plans/Intermediate Structure PS&E										
4.1.1 Bridge Plans										
Cajalco Creek Bridge										
General Plan										
General Notes-Index to Plans										
Deck Contours										
Foundation Plan										
Abutments Layout										
Abutment Details										
Bent Layout										
Bent Details										
Typical Sections										
Girder Layout										
Prestressing Notes										
Girder Details & Camber Diagrams										

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: Earth Mechanics, Inc.	SCOPE OF WORK: Plans, Specs & Estimates	PHASE: Phase II
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE: July 25, 2023

TASK									HOURS	COST
	PRINCIPAL	SR ENGINEER	SR ENGINEERING GEOLOGIST	PROJECT ENGINEER	SR STAFF ENGINEER	SR STAFF GEOLOGIST	STAFF ENGINEER	TECHNICIAN		
Utility Details										
Deck Drainage Details										
Slope Paving										
Cajalco Creek Box Culvert Replacement										
General Plan										
General Notes-Index to Plans										
Foundation Plan										
Box Culvert Details										
4.1.2 90% Structures Specifications										
4.1.3 90% Quantities & Structures Cost Estimate										
4.1.4 Structure Design Calculations										
4.1.5 Structure Independent Check Calculations										
4.1.6 Geotechnical Coordination & Foundation Report	4	2	2	4	16	20	20		68	\$ 9,772
4.1.7 Responses to Agency Comments										
Task 4.2 95% Draft Final Structures PS&E										
4.2.1 Bridge Plans										
Cajalco Creek Bridge										
General Plan										
General Notes-Index to Plans										
Deck Contours										
Foundation Plan										
Abutments Layout										
Abutment Details										
Bent Layout										
Bent Details										
Typical Sections										
Girder Layout										
Prestressing Notes										
Girder Details & Camber Diagrams										
Utility Details										
Deck Drainage Details										
Slope Paving										
Cajalco Creek Box Culvert Replacement										
General Plan										
General Notes-Index to Plans										
Foundation Plan										
Box Culvert Details										
4.2.2 95% Structures Specifications										
4.2.3 95% Structures Cost Estimate										
4.2.4 Responses to Agency Comments										
Task 4.3: Roadway 95% PS&E										
4.3.1 Roadway Plans										
Title sheet										
Strip map										
Typical sections										
Project Control (by County)										
Layout sheets										

SUBCONSULTANT MANHOOR WORKSHEET

COMPANY: Earth Mechanics, Inc.	SCOPE OF WORK: Plans, Specs & Estimates	PHASE: Phase II
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE: July 25, 2023

TASK	PERSONNEL								HOURS	COST
	PRINCIPAL	SR ENGINEER	SR ENGINEERING GEOLOGIST	PROJECT ENGINEER	SR STAFF ENGINEER	SR STAFF GEOLOGIST	STAFF ENGINEER	TECHNICIAN		
Profile/Superelevation sheets										
Construction Details										
Contour Grading										
Drainage Plan										
Drainage Profiles										
Drainage Details										
Utility Plans										
Traffic Control/Detour Plans										
Sign & Pavement Delineation Plans & Details										
Signal/Lighting/Electrical Systems Plans & Details										
Irrigation & Planting Plans & Details										
4.3.2 Responses to Agency Comments										
4.3.3 Geotechnical Report										
4.3.4 Drainage Report										
4.3.5 Utility Coordination										
4.3.6 Draft SWPPP										
4.3.7 Specifications/Special Provisions										
4.3.8 95% construction cost estimate										
4.3.9 95% Submittal										
Task 5: Final PS&E (100% PS&E)										
5.1 Roadway Plans										
Title sheet										
Strip map										
Typical sections										
Project Control (by County)										
Layout sheets										
Profile/Superelevation sheets										
Construction Details										
Contour Grading										
Drainage Plan										
Drainage Profiles										
Drainage Details										
Utility Plans										
Traffic Control/Detour Plans										
Sign & Pavement Delineation Plans & Details										
Signal/Lighting/Electrical Systems Plans & Details										
Irrigation & Planting Plans & Details										
5.2 Responses to Agency Comments										
5.3 Geotechnical Report										
5.4 Drainage Report										
5.5 Utility Coordination										
5.6 Draft SWPPP										
5.7 Specifications/Special Provisions										
5.8 100% construction cost estimate										
5.9 100% Submittal										
Task 6: R/W Acquisitions										
6.1 Right of Way Requirements Map (2 submittals max)										

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: Earth Mechanics, Inc.	SCOPE OF WORK: Plans, Specs & Estimates	PHASE: Phase II
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE: July 25, 2023

TASK	Resource Categories								HOURS	COST
	PRINCIPAL	SR ENGINEER	SR ENGINEERING GEOLOGIST	PROJECT ENGINEER	SR STAFF ENGINEER	SR STAFF GEOLOGIST	STAFF ENGINEER	TECHNICIAN		
6.2 Right of Way Cost Estimates and Data Sheets										
6.3 Appraisals										
6.3.1 Appraisal Reports										
6.3.2 Review/coordination of Appraisal Maps by County										
6.3.3 Review/coordination of Plats/Legals by County										
6.4 Right of Entry Permits										
6.5 Acquisition & Negotiation										
6.6 Relocation Assistance										
6.7 Escrow Coordination										
6.8 Right-of-Way Certification										
6.9 Property Management										
6.10 Eminent Domain Support										
Task 7: Public Outreach										
7.1 Hotline, email, website-establish/maintain										
7.2 Collateral (fact sheet, FAQ, property acquisition overview)										
7.3 Stakeholder log										
7.4 Stakeholder presentations										
7.5 Map/canvass owners/neighbors										
7.6 Schedule/conduct one-on-one meetings										
Task 8: Coordination with County Environmental Consultant										
8.1 Coordination meetings with ICF & County										
8.2 Input to regulatory agency permits by ICF										

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY Earth Mechanics, Inc.	SCOPE OF WORK: Construction Support	PHASE Phase IV
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE July 25, 2023

TASK	PRINCIPAL	SR ENGINEER	SR ENGINEERING GEOLOGIST	PROJECT ENGINEER	SR STAFF ENGINEER	SR STAFF GEOLOGIST	STAFF ENGINEER	TECHNICIAN	HOURS	COST
	\$100.00	\$213.42	\$186.93	\$157.31	\$144.74	\$137.66	\$103.45	\$80.07		

Total Manhours	22	10	52	56					140	
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Task 1 Pre-construction meeting												
Task 2 Review/respond to Requests for Information	2	2		4	8						16	\$ 2,816
Task 3 Shop drawing/contract change order assessments												
Task 4 Additional drawings at County's request												
Task 5 Site visits	4			8	8						20	\$ 3,620
Task 6 Coordination for DSDC	16	8		40	40						104	\$ 18,606
Task 7 As-built plans												

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: LIN Consulting, Inc.	SCOPE OF WORK: Traffic Design	PHASE: All Phases
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE: 12/27/2022

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
William Sun, PE, TE	Principal-in-Charge / QAQC	93	@ \$94.00	\$8,742.00
Tracy Moriya	Senior Traffic Project Manager	440	@ \$76.00	\$33,440.00
Kai-Yee (Benny) Yau, PE	Assistant Project Manager	542	@ \$50.00	\$27,100.00
Ryan Woo	Assistant Project Manager	470	@ \$50.00	\$23,500.00
Steven Hak	Project Engineer	746	@ \$36.50	\$27,229.00
Ibrahim Soualiah	Project Engineer	594	@ \$32.50	\$19,305.00

TOTAL HOURS **2,885** TOTAL DIRECT LABOR **\$139,316.00**

MULTIPLIERS

ESCALATION @	(Rates Vary by Phase)	
OVERHEAD @	84.35% (of Direct Labor + Escalation)	\$117,513.05
PAYROLL ADDITIVES @	63.41% (of Direct Labor + Escalation)	\$88,340.28
PROFIT (FIXED FEE)	10.0%	\$34,516.93

TOTAL MULTIPLIERS **\$240,370.25**

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mileage	860	Mile	@ \$0.66	\$563.30

TOTAL ODC'S **\$563.30**

TOTAL \$380,249.55

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: LIN Consulting, Inc.	SCOPE OF WORK: Traffic Design	PHASE: Phase II
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE: 12/27/2022

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
William Sun, PE, TE	Principal-in-Charge / QAQC	83	@	\$94.00	\$7,802.00
Tracy Moriya	Senior Traffic Project Manager	326	@	\$76.00	\$24,776.00
Kai-Yee (Benny) Yau, PE	Assistant Project Manager	470	@	\$50.00	\$23,500.00
Ryan Woo	Assistant Project Manager	470	@	\$50.00	\$23,500.00
Steven Hak	Project Engineer	582	@	\$36.50	\$21,243.00
Ibrahim Soualiah	Project Engineer	582	@	\$32.50	\$18,915.00
		TOTAL HOURS		2,513	TOTAL DIRECT LABOR \$119,736.00

MULTIPLIERS

ESCALATION @	(of Direct Labor)	
OVERHEAD @	84.35% (of Direct Labor + Escalation)	\$100,997.32
PAYROLL ADDITIVES @	63.41% (of Direct Labor + Escalation)	\$75,924.60
PROFIT (FIXED FEE)	10.0%	\$29,665.79
TOTAL MULTIPLIERS		\$206,587.71

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Mileage	540	Mile	@	\$0.66	\$353.70
					TOTAL ODC'S \$353.70

TOTAL ODC'S \$353.70

TOTAL \$326,677.41

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: LIN Consulting, Inc.	SCOPE OF WORK: Traffic Design	PHASE: Phase IV
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE: 12/27/2022

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
William Sun, PE, TE	Principal-in-Charge / QAQC	10	@	\$94.00	\$940.00
Tracy Moriya	Senior Traffic Project Manager	102	@	\$76.00	\$7,752.00
Kai-Yee (Benny) Yau, PE	Assistant Project Manager	60	@	\$50.00	\$3,000.00
Ryan Woo	Assistant Project Manager			\$50.00	
Steven Hak	Project Engineer	164	@	\$36.50	\$5,986.00
Ibrahim Soualiah	Project Engineer	12	@	\$32.50	\$390.00
TOTAL HOURS					348
TOTAL DIRECT LABOR					\$18,068.00

MULTIPLIERS

ESCALATION @	(of Direct Labor)			
OVERHEAD @	84.35%	(of Direct Labor + Escalation)		\$15,240.36
PAYROLL ADDITIVES @	63.41%	(of Direct Labor + Escalation)		\$11,456.92
PROFIT (FIXED FEE)	10.0%			\$4,476.53
TOTAL MULTIPLIERS				\$31,173.80

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Mileage	320	Mile	@	\$0.66	\$209.60
TOTAL ODC'S					\$209.60

TOTAL ODC'S \$209.60

TOTAL **\$49,451.40**

SUBCONSULTANT MANHOUR WORKSHEET SUMMARY

COMPANY: LIN Consulting, Inc.	SCOPE OF WORK: Traffic Design	PHASE: All Phases
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary	DATE: December 27, 2022	

TASK	PRINCIPAL-IN-CHARGE / QA/QC	SENIOR TRAFFIC PROJECT MANAGER	ASSISTANT PROJECT MANAGER	ASSISTANT PROJECT MANAGER	PROJECT ENGINEER	PROJECT ENGINEER					HOURS
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\$256.18 \$207.13 \$136.27 \$136.27 \$99.48 \$88.67

PHASE TOTALS

93	440	542	470	746	594					2,885
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PHASE I
PHASE II
PHASE III
PHASE IV

83	326	470	470	582	582						2,513
	12	12									24
10	102	60		164	12						348

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY LIN Consulting, Inc.	SCOPE OF WORK Traffic Design	PHASE Phase II
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary	DATE December 27, 2022	

TASK	PRINCIPAL-IN-CHARGE / O&C	SENIOR TRAFFIC PROJECT MANAGER	ASSISTANT PROJECT MANAGER	ASSISTANT PROJECT MANAGER	PROJECT ENGINEER	PROJECT ENGINEER	HOURS	COST
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\$256.18 \$207.13 \$136.27 \$136.27 \$99.48 \$88.57

Total Manhours	83	326	470	470	582	582	2,513
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Task 1: Project Management/Administration								
1.1 Project Management/Administration								
1.2 Schedules								
1.3 Progress Reports								
1.4 Design QMP								
1.5 Project Management Plan								
1.6 PDT Meetings								
Task 2: GAD/35% Plans & Estimate								
2.1 Data Collection								
2.2 R/W Engineering Services								
2.3 Utility Coordination & Base Plan								
2.4 Encroachment permit coordination								
2.5 Design Surveys, Aerial Mapping, Right of Entry Coordination with County								
2.6 Preliminary construction cost estimate								
2.7 Geometric refinements								
2.8 Nonstandard design features identification & approvals								
2.9 Drainage Pre-Design Validation/Stormwater Management Coord								
2.10 Geotechnical Exploration								
2.11 Preliminary Foundation Report								
2.12 Structure Type Selection (Cajalco Creek Bridge)								
2.13 Bridge Type Selection Meeting & Approval								
2.14 Hazardous Waste								
2.15 EMWD Evaluations & Coordination								
2.16 Geometric Approval Drawings	4	14	20	20	24	24	106	\$ 13,888
2.17 Planting Concept Strip Plans								
2.18 35% submittal construction cost estimate								
2.19 35% submittal								
Task 3: Intermediate PS&E (65% PS&E)								
3.1 Roadway Plans								
Title sheet								
Strip map								
Typical sections								
Project Control (by County)								
Layout sheets								
Profile/Superelevation sheets								
Construction Details								
Contour Grading								
Drainage Plan								
Drainage Profiles								
Drainage Details								
Utility Plans								

SUBCONSULTANT MANHOOR WORKSHEET

COMPANY LIN Consulting, Inc.	SCOPE OF WORK: Traffic Design	PHASE Phase II
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE December 27, 2022

TASK	PERSONNEL							HOURS	COST
	PRINCIPAL-IN-CHARGE / QA/QC	SENIOR TRAFFIC PROJECT MANAGER	ASSISTANT PROJECT MANAGER	ASSISTANT PROJECT MANAGER	PROJECT ENGINEER	PROJECT ENGINEER			
Traffic Control/Detour Plans									
Sign & Pavement Delineation Plans & Details									
Signal/Lighting/Electrical Systems Plans & Details	40	184	300	300	368	368		1,560	\$ 199,322
Irrigation & Planting Plans & Details									
3.2 Bridge Plans									
Cajalco Creek Bridge									
General Plan									
General Notes-Index to Plans									
Deck Contours									
Foundation Plan									
Abutments Layout									
Abutment Details									
Bent Layout									
Bent Details									
Typical Sections									
Girder Layout									
Prestressing Notes									
Girder Details & Camber Diagrams									
Utility Details									
Deck Drainage Details									
Slope Paving									
Cajalco Creek Box Culvert Replacement									
General Plan									
General Notes-Index to Plans									
Foundation Plan									
Box Culvert Details									
3.3 Geotechnical Report									
3.4 Foundation Report									
3.5 Design Drainage Report									
3.5 Utility Coordination & Potholing									
3.6 Draft SWPPP									
3.7 Specifications/Special Provisions	8	16						24	\$ 5,364
3.8 65% construction cost estimate	1	8	4	4	16	16		49	\$ 6,012
3.9 65% Submittal									
Task 4: Draft PS&E (95% PS&E)									
Task 4.1: 90% Checked Bridge Plans/Intermediate Structure PS&E									
4.1.1 Bridge Plans									
Cajalco Creek Bridge									
General Plan									
General Notes-Index to Plans									
Deck Contours									
Foundation Plan									
Abutments Layout									
Abutment Details									
Bent Layout									
Bent Details									

SUBCONSULTANT MANHOOR WORKSHEET

COMPANY LIN Consulting, Inc.	SCOPE OF WORK Traffic Design	PHASE Phase II
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE December 27, 2022

TASK	PERSONNEL							HOURS	COST
	PRINCIPAL-IN-CHARGE / QA/QC	SENIOR TRAFFIC PROJECT MANAGER	ASSISTANT PROJECT MANAGER	ASSISTANT PROJECT MANAGER	PROJECT ENGINEER	PROJECT ENGINEER			
Typical Sections									
Girder Layout									
Prestressing Notes									
Girder Details & Camber Diagrams									
Utility Details									
Deck Drainage Details									
Slope Paving									
Cajalco Creek Box Culvert Replacement									
General Plan									
General Notes-Index to Plans									
Foundation Plan									
Box Culvert Details									
4.1.2 90% Structures Specifications									
4.1.3 90% Quantities & Structures Cost Estimate									
4.1.4 Structure Design Calculations									
4.1.5 Structure Independent Check Calculations									
4.1.6 Geotechnical Coordination & Foundation Report									
4.1.7 Responses to Agency Comments									
Task 4.2 95% Draft Final Structures PS&E									
4.2.1 Bridge Plans									
Cajalco Creek Bridge									
General Plan									
General Notes-Index to Plans									
Deck Contours									
Foundation Plan									
Abutments Layout									
Abutment Details									
Bent Layout									
Bent Details									
Typical Sections									
Girder Layout									
Prestressing Notes									
Girder Details & Camber Diagrams									
Utility Details									
Deck Drainage Details									
Slope Paving									
Cajalco Creek Box Culvert Replacement									
General Plan									
General Notes-Index to Plans									
Foundation Plan									
Box Culvert Details									
4.2.2 95% Structures Specifications									
4.2.3 95% Structures Cost Estimate									
4.2.4 Responses to Agency Comments									
Task 4.3: Roadway 95% PS&E									

SUBCONSULTANT MANHOOR WORKSHEET

COMPANY LIN Consulting, Inc.	SCOPE OF WORK Traffic Design	PHASE Phase II
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary	DATE December 27, 2022	

TASK	PERSONNEL							HOURS	COST
	PRINCIPAL-IN-CHARGE / QA/QC	SENIOR TRAFFIC PROJECT MANAGER	ASSISTANT PROJECT MANAGER	ASSISTANT PROJECT MANAGER	PROJECT ENGINEER	PROJECT ENGINEER			
4.3.1 Roadway Plans									
Title sheet									
Strip map									
Typical sections									
Project Control (by County)									
Layout sheets									
Profile/Superelevation sheets									
Construction Details									
Contour Grading									
Drainage Plan									
Drainage Profiles									
Drainage Details									
Utility Plans									
Traffic Control/Detour Plans									
Sign & Pavement Delineation Plans & Details									
Signal/Lighting/Electrical Systems Plans & Details	16	60	100	100	112	112	500	\$ 64,842	
Irrigation & Planting Plans & Details									
4.3.2 Responses to Agency Comments									
4.3.3 Geotechnical Report									
4.3.4 Drainage Report									
4.3.5 Utility Coordination									
4.3.6 Draft SWPPP									
4.3.7 Specifications/Special Provisions	4	8					12	\$ 2,682	
4.3.8 95% construction cost estimate		4	4	4	8	8	28	\$ 3,423	
4.3.9 95% Submittal									
Task 5: Final PS&E (100% PS&E)									
5.1 Roadway Plans									
Title sheet									
Strip map									
Typical sections									
Project Control (by County)									
Layout sheets									
Profile/Superelevation sheets									
Construction Details									
Contour Grading									
Drainage Plan									
Drainage Profiles									
Drainage Details									
Utility Plans									
Traffic Control/Detour Plans									
Sign & Pavement Delineation Plans & Details									
Signal/Lighting/Electrical Systems Plans & Details	8	24	40	40	50	50	212	\$ 27,324	
Irrigation & Planting Plans & Details									
5.2 Responses to Agency Comments									
5.3 Geotechnical Report									
5.4 Drainage Report									

SUBCONSULTANT MANHOOR WORKSHEET

COMPANY LIN Consulting, Inc.	SCOPE OF WORK Traffic Design	PHASE Phase II
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary	DATE December 27, 2022	

TASK	PRINCIPAL-IN-CHARGE / QA/QC	SENIOR TRAFFIC PROJECT MANAGER	ASSISTANT PROJECT MANAGER	ASSISTANT PROJECT MANAGER	PROJECT ENGINEER	PROJECT ENGINEER								HOURS	COST
5.5 Utility Coordination															
5.6 Draft SWPPP															
5.7 Specifications/Special Provisions	2	6												8	\$ 1,755
5.8 100% construction cost estimate		2	2	2	4	4								14	\$ 1,712
5.9 100% Submittal															
Task 6: RW Acquisitions															
6.1 Right of Way Requirements Map (2 submittals max)															
6.2 Right of Way Cost Estimates and Data Sheets															
6.3 Appraisals															
6.3.1 Appraisal Reports															
6.3.2 Review/coordination of Appraisal Maps by County															
6.3.3 Review/coordination of Plats/Legals by County															
6.4 Right of Entry Permits															
6.5 Acquisition & Negotiation															
6.6 Relocation Assistance															
6.7 Escrow Coordination															
6.8 Right-of-Way Certification															
6.9 Property Management															
6.10 Eminent Domain Support															
Task 7: Public Outreach															
7.1 Hotline, email, website-establish/maintain															
7.2 Collateral (fact sheet, FAQ, property acquisition overview)															
7.3 Stakeholder log															
7.4 Stakeholder presentations															
7.5 Map/canvass owners/neighbors															
7.6 Schedule/conduct one-on-one meetings															
Task 8: Coordination with County Environmental Consultant															
8.1 Coordination meetings with ICF & County															
8.2 Input to regulatory agency permits by ICF															

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Laurel Civil & Environmental Consultants	SCOPE OF WORK: Hazardous Waste	PHASE: All Phases
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE: 1/4/2023

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT	
Sally Drinkard	Project Manager/Haz Materials Lead	468	@ \$80.00	\$37,440.00	
Michele Kinaan	Senior Technical Review (QA/QC)	90	@ \$90.00	\$8,100.00	
Mike Ladeau	Senior Field Technician	122	@ \$60.00	\$7,320.00	
TBD	Senior Professional	75	@ \$70.00	\$5,250.00	
TBD	Project Professional	346	@ \$50.00	\$17,300.00	
TBD	Technical Editor	48	@ \$40.00	\$1,920.00	
TBD	Graphics	240	@ \$40.00	\$9,600.00	
		TOTAL HOURS	1,389	TOTAL DIRECT LABOR	\$86,930.00

MULTIPLIERS

ESCALATION @	(Rates Vary by Phase)			
OVERHEAD @	1.20%	(of Direct Labor + Escalation)	\$1,043.16	
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)		
PROFIT (FIXED FEE)	10.0%		\$8,797.32	
			TOTAL MULTIPLIERS	\$9,840.48

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT	
Enthalpy Analytical - Detailed Site Investigation (DSI)	1	Each	@ \$9,320.00	\$9,320.00	
Enthalpy Analytical - Agricultural Property Assessment (AGR)	1	Each	@ \$6,100.00	\$6,100.00	
Enthalpy Analytical - Lead Base Paint (LBP)	1	Each	@ \$500.00	\$500.00	
Strongarm Environmental Field Services - DSI	1	Each	@ \$7,750.00	\$7,750.00	
Strongarm Environmental Field Services - LBP	1	Each	@ \$995.00	\$995.00	
Geophysical Clearance - DSI	1	Each	@ \$2,425.00	\$2,425.00	
Traffic Control - LBP	1	Each	@ \$3,750.00	\$3,750.00	
Investigation Derived Waste (IDW) - DSI	1	Each	@ \$2,350.00	\$2,350.00	
Aurora Industrial Hygiene - Hazardous Materials Surveys	1	Each	@ \$29,650.00	\$29,650.00	
Field Vehicle	12	Day	@ \$100.00	\$1,200.00	
Health and Safety Supplies	12	Day	@ \$50.00	\$600.00	
GPS Rental	12	Day	@ \$150.00	\$1,800.00	
				TOTAL ODC'S	\$66,440.00

TOTAL **\$163,210.48**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Laurel Civil & Environmental Consultants	SCOPE OF WORK: Hazardous Waste	PHASE: Phase II
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE: 1/4/2023

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT	
Sally Drinkard	Project Manager/Haz Materials Lead	468	@	\$80.00	\$37,440.00	
Michele Kinaan	Senior Technical Review (QA/QC)	90	@	\$90.00	\$8,100.00	
Mike Ladeau	Senior Field Technician	122	@	\$60.00	\$7,320.00	
TBD	Senior Professional	75	@	\$70.00	\$5,250.00	
TBD	Project Professional	346	@	\$50.00	\$17,300.00	
TBD	Technical Editor	48	@	\$40.00	\$1,920.00	
TBD	Graphics	240	@	\$40.00	\$9,600.00	
		TOTAL HOURS		1,389	TOTAL DIRECT LABOR	\$86,930.00

MULTIPLIERS

ESCALATION @	(of Direct Labor)			
OVERHEAD @	1.20%	(of Direct Labor + Escalation)	\$1,043.16	
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)		
PROFIT (FIXED FEE)	10.0%		\$8,797.32	
			TOTAL MULTIPLIERS	\$9,840.48

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT	
Enthalpy Analytical - Detailed Site Investigation (DSI)	1	Each	@	\$9,320.00	\$9,320.00	
Enthalpy Analytical - Agricultural Property Assessment (AGR)	1	Each	@	\$6,100.00	\$6,100.00	
Enthalpy Analytical - Lead Base Paint (LBP)	1	Each	@	\$500.00	\$500.00	
Strongarm Environmental Field Services - DSI	1	Each	@	\$7,750.00	\$7,750.00	
Strongarm Environmental Field Services - LBP	1	Each	@	\$995.00	\$995.00	
Geophysical Clearance - DSI	1	Each	@	\$2,425.00	\$2,425.00	
Traffic Control - LBP	1	Each	@	\$3,750.00	\$3,750.00	
Investigation Derived Waste (IDW) - DSI	1	Each	@	\$2,350.00	\$2,350.00	
Aurora Industrial Hygiene - Hazardous Materials Surveys	1	Each	@	\$29,650.00	\$29,650.00	
Field Vehicle	12	Day	@	\$100.00	\$1,200.00	
Health and Safety Supplies	12	Day	@	\$50.00	\$600.00	
GPS Rental	12	Day	@	\$150.00	\$1,800.00	
					TOTAL ODC'S	\$66,440.00

TOTAL \$163,210.48

SUBCONSULTANT MANHOUR WORKSHEET SUMMARY

COMPANY: Laurel Civil & Environmental Consultants	SCOPE OF WORK: Hazardous Waste	PHASE: All Phases
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE: January 4, 2023

TASK	PROJECT MANAGER/HAZ MATERIALS LEAD	SENIOR TECHNICAL REVIEW (QA/QC)	SENIOR FIELD TECHNICIAN	SENIOR PROFESSIONAL	PROJECT PROFESSIONAL	TECHNICAL EDITOR	GRAPHICS					HOURS
	\$89.06	\$100.19	\$66.79	\$77.92	\$55.66	\$44.53	\$44.53					

PHASE TOTALS

468	90	122	75	346	48	240					1,389
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PHASE I
PHASE II
PHASE III
PHASE IV

468	90	122	75	346	48	240					1,389
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SUBCONSULTANT MANHOOR WORKSHEET

COMPANY Laurel Civil & Environmental Consultants	SCOPE OF WORK Hazardous Waste	PHASE Phase II
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary	DATE January 4, 2023	

TASK	PROJECT MANAGER/HAZ	MATERIALS LEAD	SENIOR TECHNICAL REVIEW (CAJCO)	SENIOR FIELD TECHNICIAN	SENIOR PROFESSIONAL	PROJECT PROFESSIONAL	TECHNICAL EDITOR	GRAPHICS	HOURS	COST
	\$89.06	\$100.19	\$56.79	\$77.92	\$55.65	\$44.53	\$44.53			

Total Manhours

468	90	122	75	346	48	240	1,389
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TASK	PROJECT MANAGER/HAZ	MATERIALS LEAD	SENIOR TECHNICAL REVIEW (CAJCO)	SENIOR FIELD TECHNICIAN	SENIOR PROFESSIONAL	PROJECT PROFESSIONAL	TECHNICAL EDITOR	GRAPHICS	HOURS	COST
Task 1: Project Management/Administration										
1.1 Project Management/Administration										
1.2 Schedules										
1.3 Progress Reports										
1.4 Design QMP										
1.5 Project Management Plan										
1.6 PDT Meetings										
Task 2: GAD/35% Plans & Estimate										
2.1 Data Collection										
2.2 R/W Engineering Services										
2.3 Utility Coordination & Base Plan										
2.4 Encroachment permit coordination										
2.5 Design Surveys, Aerial Mapping, Right of Entry Coordination with County										
2.6 Preliminary construction cost estimate										
2.7 Geometric refinements										
2.8 Nonstandard design features identification & approvals										
2.9 Drainage Pre-Design Validation/Stormwater Management Coord										
2.10 Geotechnical Exploration										
2.11 Preliminary Foundation Report										
2.12 Structure Type Selection (Cajalco Creek Bridge)										
2.13 Bridge Type Selection Meeting & Approval										
2.14 Hazardous Waste										
Detailed Site Investigation (Baldwin Mobil)	168	40	44	40	110	16	96			
Agricultural Property Assessment	132	20	54	20	114	12	64			
Lead Based Paint in Roadway Striping	112	20	14	10	82	12	48			
Hazardous Materials Survey	56	10	10	5	40	8	32			
2.15 EMWD Evaluations & Coordination										
2.16 Geometric Approval Drawings										
2.17 Planting Concept Strip Plans										
2.18 35% submittal construction cost estimate										
2.19 35% submittal										
Task 3: Intermediate PS&E (65% PS&E)										
3.1 Roadway Plans										
Title sheet										
Strip map										
Typical sections										
Project Control (by County)										
Layout sheets										
Profile/Superelevation sheets										

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY Laurel Civil & Environmental Consultants	SCOPE OF WORK Hazardous Waste	PHASE Phase II
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary	DATE January 4, 2023	

TASK	PROFESSIONAL CATEGORIES										HOURS	COST
	PROJECT MANAGER/HAZ MATERIALS LEAD	SENIOR TECHNICAL REVIEW (QA/QC)	SENIOR FIELD TECHNICIAN	SENIOR PROFESSIONAL	PROJECT PROFESSIONAL	TECHNICAL EDITOR	GRAPHICS					
Construction Details												
Contour Grading												
Drainage Plan												
Drainage Profiles												
Drainage Details												
Utility Plans												
Traffic Control/Detour Plans												
Sign & Pavement Delineation Plans & Details												
Signal/Lighting/Electrical Systems Plans & Details												
Irrigation & Planting Plans & Details												
3.2 Bridge Plans												
Cajalco Creek Bridge												
General Plan												
General Notes-Index to Plans												
Deck Contours												
Foundation Plan												
Abutments Layout												
Abutment Details												
Bent Layout												
Bent Details												
Typical Sections												
Girder Layout												
Prestressing Notes												
Girder Details & Camber Diagrams												
Utility Details												
Deck Drainage Details												
Slope Paving												
Cajalco Creek Box Culvert Replacement												
General Plan												
General Notes-Index to Plans												
Foundation Plan												
Box Culvert Details												
3.3 Geotechnical Report												
3.4 Foundation Report												
3.5 Design Drainage Report												
3.5 Utility Coordination & Potholing												
3.6 Draft SWPPP												
3.7 Specifications/Special Provisions												
3.8 65% construction cost estimate												
3.9 65% Submittal												
Task 4: Draft PS&E (95% PS&E)												
Task 4.1: 90% Checked Bridge Plans/Intermediate Structure PS&E												
4.1.1 Bridge Plans												
Cajalco Creek Bridge												

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: Laurel Civil & Environmental Consultants	SCOPE OF WORK: Hazardous Waste	PHASE: Phase II
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary	DATE: January 4, 2023	

TASK	PERSONNEL										HOURS	COST
	PROJECT MANAGER/HAZ MATERIALS LEAD	SENIOR TECHNICAL REVIEW (QA/QC)	SENIOR FIELD TECHNICIAN	SENIOR PROFESSIONAL	PROJECT PROFESSIONAL	TECHNICAL EDITOR	GRAPHICS					
General Plan												
General Notes-Index to Plans												
Deck Contours												
Foundation Plan												
Abutments Layout												
Abutment Details												
Bent Layout												
Bent Details												
Typical Sections												
Girder Layout												
Prestressing Notes												
Girder Details & Camber Diagrams												
Utility Details												
Deck Drainage Details												
Slope Paving												
Cajalco Creek Box Culvert Replacement												
General Plan												
General Notes-Index to Plans												
Foundation Plan												
Box Culvert Details												
4.1.2 90% Structures Specifications												
4.1.3 90% Quantities & Structures Cost Estimate												
4.1.4 Structure Design Calculations												
4.1.5 Structure Independent Check Calculations												
4.1.6 Geotechnical Coordination & Foundation Report												
4.1.7 Responses to Agency Comments												
Task 4.2 95% Draft Final Structures PS&E												
4.2.1 Bridge Plans												
Cajalco Creek Bridge												
General Plan												
General Notes-Index to Plans												
Deck Contours												
Foundation Plan												
Abutments Layout												
Abutment Details												
Bent Layout												
Bent Details												
Typical Sections												
Girder Layout												
Prestressing Notes												
Girder Details & Camber Diagrams												
Utility Details												
Deck Drainage Details												
Slope Paving												

SUBCONSULTANT MANHOOR WORKSHEET

COMPANY Laurel Civil & Environmental Consultants	SCOPE OF WORK Hazardous Waste	PHASE Phase II
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary	DATE January 4, 2023	

TASK	PERSONNEL								HOURS	COST
	PROJECT MANAGER/HAZ MATERIALS LEAD	SENIOR TECHNICAL REVIEW (QA/QC)	SENIOR FIELD TECHNICIAN	SENIOR PROFESSIONAL	PROJECT PROFESSIONAL	TECHNICAL EDITOR	GRAPHICS			
Cajalco Creek Box Culvert Replacement										
General Plan										
General Notes-Index to Plans										
Foundation Plan										
Box Culvert Details										
4.2.2 95% Structures Specifications										
4.2.3 95% Structures Cost Estimate										
4.2.4 Responses to Agency Comments										
Task 4.3: Roadway 95% PS&E										
4.3.1 Roadway Plans										
Title sheet										
Strip map										
Typical sections										
Project Control (by County)										
Layout sheets										
Profile/Superelevation sheets										
Construction Details										
Contour Grading										
Drainage Plan										
Drainage Profiles										
Drainage Details										
Utility Plans										
Traffic Control/Detour Plans										
Sign & Pavement Delineation Plans & Details										
Signal/Lighting/Electrical Systems Plans & Details										
Irrigation & Planting Plans & Details										
4.3.2 Responses to Agency Comments										
4.3.3 Geotechnical Report										
4.3.4 Drainage Report										
4.3.5 Utility Coordination										
4.3.6 Draft SWPPP										
4.3.7 Specifications/Special Provisions										
4.3.8 95% construction cost estimate										
4.3.9 95% Submittal										
Task 5: Final PS&E (100% PS&E)										
5.1 Roadway Plans										
Title sheet										
Strip map										
Typical sections										
Project Control (by County)										
Layout sheets										
Profile/Superelevation sheets										
Construction Details										

SUBCONSULTANT MANHOOR WORKSHEET

COMPANY Laurel Civil & Environmental Consultants	SCOPE OF WORK Hazardous Waste	PHASE Phase II
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE January 4, 2023

TASK	PERSONNEL										HOURS	COST
	PROJECT MANAGER/HAZ MATERIALS LEAD	SENIOR TECHNICAL REVIEW (DA/CC)	SENIOR FIELD TECHNICIAN	SENIOR PROFESSIONAL	PROJECT PROFESSIONAL	TECHNICAL EDITOR	GRAPHICS					
Contour Grading												
Drainage Plan												
Drainage Profiles												
Drainage Details												
Utility Plans												
Traffic Control/Detour Plans												
Sign & Pavement Delineation Plans & Details												
Signal/Lighting/Electrical Systems Plans & Details												
Irrigation & Planting Plans & Details												
5.2 Responses to Agency Comments												
5.3 Geotechnical Report												
5.4 Drainage Report												
5.5 Utility Coordination												
5.6 Draft SWPPP												
5.7 Specifications/Special Provisions												
5.8 100% construction cost estimate												
5.9 100% Submittal												
Task 6: R/W Acquisitions												
6.1 Right of Way Requirements Map (2 submittals max)												
6.2 Right of Way Cost Estimates and Data Sheets												
6.3 Appraisals												
6.3.1 Appraisal Reports												
6.3.2 Review/coordination of Appraisal Maps by County												
6.3.3 Review/coordination of Plats/Legals by County												
6.4 Right of Entry Permits												
6.5 Acquisition & Negotiation												
6.6 Relocation Assistance												
6.7 Escrow Coordination												
6.8 Right-of-Way Certification												
6.9 Property Management												
6.10 Eminent Domain Support												
Task 7: Public Outreach												
7.1 Hotline, email, website-establish/maintain												
7.2 Collateral (fact sheet, FAQ, property acquisition overview)												
7.3 Stakeholder log												
7.4 Stakeholder presentations												
7.5 Map/canvass owners/neighbors												
7.6 Schedule/conduct one-on-one meetings												
Task 8: Coordination with County Environmental Consultant												
8.1 Coordination meetings with ICF & County												
8.2 Input to regulatory agency permits by ICF												

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Kimley Horn	SCOPE OF WORK: Drainage/Stormwater Management	PHASE: All Phases
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE: 7/2/2023

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Rich Lucera	Lead Hydraulics/Drainage	1,809	@	\$85.44	\$154,560.96
	Sr. Professional III	196	@	\$94.42	\$18,506.32
	Sr. Professional I	3,018	@	\$71.16	\$214,760.88
	Professional II	3,210	@	\$59.48	\$190,930.80
	Project Support	36	@	\$31.26	\$1,125.36
TOTAL HOURS		8,269		TOTAL DIRECT LABOR	\$579,884.32

MULTIPLIERS

ESCALATION @	(Rates Vary by Phase)	\$30,377.33
OVERHEAD @	194.38% (of Direct Labor + Escalation)	\$1,186,226.60
PAYROLL ADDITIVES @	(of Direct Labor + Escalation)	
PROFIT (FIXED FEE)	10.0%	\$179,648.83
TOTAL MULTIPLIERS		\$1,396,252.76

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
FEMA Online CLOMR Submittal	1	Each	@	\$10,000.00	\$10,000.00
Reproduction/Delivery	1	Each	@	\$20,000.00	\$20,000.00
Mileage	4000	Mile	@	\$0.56	\$2,240.00

TOTAL ODC'S **\$32,240.00**

TOTAL \$2,008,377.08

SUBCONSULTANT MANHOUR WORKSHEET SUMMARY	
COMPANY: Kimley Horn	SCOPE OF WORK: Drainage/Stormwater Manag
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary	

TASK	LEAD HYDRAULICS/DRAINAGE	SR. PROFESSIONAL III	SR. PROFESSIONAL I	PROFESSIONAL II	PROJECT SUPPORT	HOURS
	\$276.67	\$305.75	\$230.43	\$192.61	\$101.23	
PHASE TOTALS	1,809	196	3,018	3,210	36	8,269
PHASE I						
PHASE II	1,709	190	2,844	2,990	36	7,769
PHASE III	38	6	41	65		150
PHASE IV	62		133	155		350

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: Kimley Horn	SCOPE OF WORK: Drainage/Stormwater Man. Phase II
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary	July 2, 2023

TASK	LEAD	HYDRAULIC/DRAINAGE	SR. PROFESSIONAL III	SR. PROFESSIONAL I	PROFESSIONAL II	PROJECT SUPPORT	HOURS	COST
	\$276.67	\$305.75	\$230.43	\$192.61	\$101.23			

Total Manhours

1,709	190	2,844	2,990	36	7,769
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Task 1: Project Management/Administration	200			214	36	450	\$ 100,196
Task 2: GAD/35% Plans & Estimate	69	2	126	80		277	\$ 64,144
2.9.a Drainage Pre-Design Validation/Stormwater Management Coord	49	1	80	80		210	\$ 47,705
2.9.a Coordination and Submittal 35% GAD	20	1	46			67	\$ 16,439
Task 3: Intermediate PS&E (65% PS&E)	867	118	1,762	1,750		4,497	\$ 1,019,029
Drainage and Water Quality Plans & Details Cajalco Road	509	80	1,090	1,090		2,769	\$ 626,394
Drainage Plans an Details Line H	188	20	265	265		738	\$ 170,233
H&H Analysis	90	10	200	200		500	\$ 112,565
Water Quality Study & Project SWPPP	20	2	62	50		134	\$ 30,062
Floodplain Mapping and FEMA Approval	40	4	110	110		264	\$ 710,860
Assistance with Quantities/Estimates and Specifications	20	2	35	35		92	\$ 238,750
Task 4: Draft PS&E (95% PS&E)	526	60	857	850		2,293	\$ 525,067
Drainage and Water Quality Plans & Details Cajalco Road	300	40	580	580		1,500	\$ 340,592
Drainage Plans an Details Line H	140	10	80	80		310	\$ 75,634
H&H Analysis	50	5	110	110		275	\$ 61,896
Water Quality Study & Project SWPPP	10	2	22	15		49	\$ 11,337
Floodplain Mapping and FEMA Approval	20	2	45	45		112	\$ 297,090
Assistance with Quantities/Estimates and Specifications	6	1	20	20		47	\$ 127,124
Task 5: Final PS&E (100% PS&E)	47	10	99	96		252	\$ 57,364
Drainage and Water Quality Plans & Details Cajalco Road	20	4	48	48		120	\$ 27,062
Drainage Plans an Details Line H	4	1	8	8		21	\$ 4,797
H&H Analysis	5	2	10	10		27	\$ 6,225
Water Quality Study & Project SWPPP	4	1	8	8		21	\$ 53,698
Floodplain Mapping and FEMA Approval	4	1	20	17		42	\$ 114,736
Assistance with Quantities/Estimates and Specifications	10	1	5	5		21	\$ 46,450

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY:

Kimley Horn

SCOPE OF WORK:

Drainage/Stormwater Ma

PROJECT:

Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary

TASK	LEAD	SR. PROFESSIONAL III	SR. PROFESSIONAL I	PROFESSIONAL II	PROJECT SUPPORT	HOURS	COST
	HYDRAULICS/DRAINAGE						

\$276.67 \$305.75 \$230.43 \$192.61 \$101.23

Total Manhours

38	6	41	65	150
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Task 1 Attend Pre-Bid Meeting			6	6		12	\$	2,538
Task 2 Respond to Inquiries	18	2	10	5		35	\$	8,859
Task 3 Issue Addenda (2 max)	2	2	15	54		73	\$	15,022
Task 4 Coordination with County	18	2	10			30	\$	7,896

SUBCONSULTANT MANHOUR WORKSHEET					
COMPANY: Kimley Horn			SCOPE OF WORK: Drainage/Ston		
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary					
TASK	LEAD HYDRAULICS/DRAINAGE	SR. PROFESSIONAL I	PROFESSIONAL II	HOURS	COST

\$276.67 \$230.43 \$192.61

Total Manhours	62	133	155	350
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Task 1 Pre-construction meeting		6	6	12	\$ 2,538
Task 2 Review/respond to Requests for Information	10	20	22	52	\$ 11,613
Task 3 Shop drawing/contract change order assessment	6	20	40	66	\$ 13,973
Task 4 Additional drawings at County's request	24	47	47	118	\$ 26,523
Task 5 Site visits	12	30	30	72	\$ 16,011
Task 6 Coordination for DSDC					
Task 7 As-built plans	10	10	10	30	\$ 6,997

SUBCONSULTANT MANHOUR WORKSHEET SUMMARY

COMPANY Guida Surveying, Inc.	SCOPE OF WORK Survey/Right of Way QC	PHASE All Phases
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE December 27, 2022

TASK	SURVEY MANAGER	SR. PROJECT SURVEYOR	PROJECT SURVEYOR	SR. SURVEY ANALYST	SURVEY ANALYST	SURVEY TECHNICIAN	PROJECT COORDINATOR	LICENSED PARTY CHIEF**	CERTIFIED PARTY CHIEF***	PARTY CHIEF**	INSTRUMENTMAN**	CHAINMAN**	APPRENTICE**	HOURS
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\$288.90 \$224.70 \$208.65 \$176.55 \$160.50 \$144.45 \$128.40 \$219.12 \$204.03 \$191.03 \$176.10 \$174.24 \$139.38

PHASE TOTALS	24	80	136	16	40	4			60		60			420
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PHASE I														
PHASE II	24	80	136	16	40	4			60		60			420
PHASE III														
PHASE IV														

SUBCONSULTANT MANHOOR WORKSHEET

COMPANY Guida Surveying, Inc.		SCOPE OF WORK Survey/Right of Way QC	PHASE Phase II
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE December 27, 2022	

TASK	SURVEY MANAGER	SR. PROJECT SURVEYOR	PROJECT SURVEYOR	SR. SURVEY ANALYST	SURVEY ANALYST	SURVEY TECHNICIAN	PROJECT COORDINATOR	LICENSED PARTY CHIEF**	CERTIFIED PARTY CHIEF**	PARTY CHIEF**	INSTRUMENTMAN**	CHAIRMAN**	APPRENTICE**	HOURS	COST
	\$288.90	\$224.70	\$208.65	\$175.55	\$160.50	\$144.45	\$128.40	\$219.12	\$204.03	\$191.03	\$176.10	\$174.24	\$139.38		

Total Manhours	24	80	136	16	40	4				60		60		420	
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TASK	SURVEY MANAGER	SR. PROJECT SURVEYOR	PROJECT SURVEYOR	SR. SURVEY ANALYST	SURVEY ANALYST	SURVEY TECHNICIAN	PROJECT COORDINATOR	LICENSED PARTY CHIEF**	CERTIFIED PARTY CHIEF**	PARTY CHIEF**	INSTRUMENTMAN**	CHAIRMAN**	APPRENTICE**	HOURS	COST
Task 1: Project Management/Administration															
1.1 Project Management/Administration															
1.2 Schedules															
1.3 Progress Reports															
1.4 Design QMP															
1.5 Project Management Plan															
1.6 PDT Meetings															
Task 2: GAD/35% Plans & Estimate															
2.1 Data Collection															
2.2 R/W Engineering Services		8	40				2							50	\$ 10,914
2.3 Utility Coordination & Base Plan															
2.4 Encroachment permit coordination															
2.5 Design Surveys, Aerial Mapping, Right of Entry Coord		8	16	16	40		2		60		60			202	\$ 37,067
2.6 Preliminary construction cost estimate															
2.7 Geometric refinements															
2.8 Nonstandard design features identification & approvals															
2.9 Drainage Pre-Design Validation/Stormwater Management Coord															
2.10 Geotechnical Exploration															
2.11 Preliminary Foundation Report															
2.12 Structure Type Selection (Cajalco Creek Bridge)															
2.13 Bridge Type Selection Meeting & Approval															
2.14 Hazardous Waste															
2.15 EMWD Evaluations & Coordination															
2.16 Geometric Approval Drawings															
2.17 Planting Concept Strip Plans															
2.18 35% submittal construction cost estimate															
2.19 35% submittal															
Task 3: Intermediate PS&E (65% PS&E)															
3.1 Roadway Plans															
Title sheet															
Strip map															
Typical sections															
Project Control (by County)															
Layout sheets															
Profile/Superelevation sheets															
Construction Details															
Contour Grading															
Drainage Plan															
Drainage Profiles															
Drainage Details															
Utility Plans															
Traffic Control/Detour Plans															
Sign & Pavement Delineation Plans & Details															
Signal/Lighting/Electrical Systems Plans & Details															

SUBCONSULTANT MANHOOR WORKSHEET

COMPANY: Guida Surveying, Inc.	SCOPE OF WORK: Survey/Right of Way QC	PHASE: Phase II
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE: December 27, 2022

TASK	SURVEY MANAGER	SR. PROJECT SURVEYOR	PROJECT SURVEYOR	SR. SURVEY ANALYST	SURVEY ANALYST	SURVEY TECHNICIAN	PROJECT COORDINATOR	LICENSED PARTY CHIEF**	CERTIFIED PARTY CHIEF***	P PARTY CHIEF***	INSTRUMENTMAN**	CHAINMAN**	APPRENTICE***	HOURS	COST
Irrigation & Planting Plans & Details															
3.2 Bridge Plans															
Cajalco Creek Bridge															
General Plan															
General Notes-Index to Plans															
Deck Contours															
Foundation Plan															
Abutments Layout															
Abutment Details															
Bent Layout															
Bent Details															
Typical Sections															
Girder Layout															
Prestressing Notes															
Girder Details & Camber Diagrams															
Utility Details															
Deck Drainage Details															
Slope Paving															
Cajalco Creek Box Culvert Replacement															
General Plan															
General Notes-Index to Plans															
Foundation Plan															
Box Culvert Details															
3.3 Geotechnical Report															
3.4 Foundation Report															
3.5 Design Drainage Report															
3.5 Utility Coordination & Potholing															
3.6 Draft SWPPP															
3.7 Specifications/Special Provisions															
3.8 65% construction cost estimate															
3.9 65% Submittal															
Task 4: Draft PS&E (95% PS&E)															
Task 4.1: 90% Checked Bridge Plans/Intermediate Structure PS&E															
4.1.1 Bridge Plans															
Cajalco Creek Bridge															
General Plan															
General Notes-Index to Plans															
Deck Contours															
Foundation Plan															
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Abutment Details															
Bent Layout															
Bent Details															
Typical Sections															
Girder Layout															
Prestressing Notes															
Girder Details & Camber Diagrams															
Utility Details															
Deck Drainage Details															

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY Guida Surveying, Inc.	SCOPE OF WORK: Survey/Right of Way QC	PHASE Phase II
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE December 27, 2022

TASK	PERSONNEL											HOURS	COST			
	SURVEY MANAGER	SR. PROJECT SURVEYOR	PROJECT SURVEYOR	SR. SURVEY ANALYST	SURVEY ANALYST	SURVEY TECHNICIAN	PROJECT COORDINATOR	LICENSED PARTY CHIEF**	CERTIFIED PARTY CHIEF**	PARTY CHIEF**	INSTRUMENTMAN**			CHAIRMAN**	APPRENTICE**	
Slope Paving																
Cajalco Creek Box Culvert Replacement																
General Plan																
General Notes-Index to Plans																
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4.1.2 90% Structures Specifications																
4.1.3 90% Quantities & Structures Cost Estimate																
4.1.4 Structure Design Calculations																
4.1.5 Structure Independent Check Calculations																
4.1.6 Geotechnical Coordination & Foundation Report																
4.1.7 Responses to Agency Comments																
Task 4.2 95% Draft Final Structures PS&E																
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4.2.2 95% Structures Specifications																
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4.2.4 Responses to Agency Comments																
Task 4.3: Roadway 95% PS&E																
4.3.1 Roadway Plans																
Title sheet																
Strip map																
Typical sections																
Project Control (by County)																
Layout sheets																
Profile/Superelevation sheets																
Construction Details																
Contour Grading																

SUBCONSULTANT MANHOOR WORKSHEET

COMPANY Guida Surveying, Inc.	SCOPE OF WORK Survey/Right of Way QC	PHASE Phase II
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary	DATE December 27, 2022	

TASK	SURVEY MANAGER	SR. PROJECT SUPERVISOR	PROJECT SUPERVISOR	SR. SURVEY ANALYST	SURVEY ANALYST	SURVEY TECHNICIAN	PROJECT COORDINATOR	LICENSED PARTY CHIEF**	CERTIFIED PARTY CHIEF**	PARTY CHIEF**	INSTRUMENTMAN**	CHAIRMAN**	APPRENTICE**	HOURS	COST
Drainage Plan															
Drainage Profiles															
Drainage Details															
Utility Plans															
Traffic Control/Detour Plans															
Sign & Pavement Delineation Plans & Details															
Signal/Lighting/Electrical Systems Plans & Details															
Irrigation & Planting Plans & Details															
4.3.2 Responses to Agency Comments															
4.3.3 Geotechnical Report															
4.3.4 Drainage Report															
4.3.5 Utility Coordination															
4.3.6 Draft SWPPP															
4.3.7 Specifications/Special Provisions															
4.3.8 95% construction cost estimate															
4.3.9 95% Submittal															
Task 5: Final PS&E (100% PS&E)															
5.1 Roadway Plans															
Title sheet															
Strip map															
Typical sections															
Project Control (by County)															
Layout sheets															
Profile/Superelevation sheets															
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Contour Grading															
Drainage Plan															
Drainage Profiles															
Drainage Details															
Utility Plans															
Traffic Control/Detour Plans															
Sign & Pavement Delineation Plans & Details															
Signal/Lighting/Electrical Systems Plans & Details															
Irrigation & Planting Plans & Details															
5.2 Responses to Agency Comments															
5.3 Geotechnical Report															
5.4 Drainage Report															
5.5 Utility Coordination															
5.6 Draft SWPPP															
5.7 Specifications/Special Provisions															
5.8 100% construction cost estimate															
5.9 100% Submittal															
Task 6: R/W Acquisitions															
6.1 Right of Way Requirements Map (2 submittals max)															
6.2 Right of Way Cost Estimates and Data Sheets															
6.3 Appraisals															
6.3.1 Appraisal Reports															
6.3.2 Review/coordination of Appraisal Maps by County															

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY Guida Surveying, Inc.	SCOPE OF WORK Survey/Right of Way QC	PHASE Phase II
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE December 27, 2022

TASK	SURVEY MANAGER	SR. PROJECT SURVEYOR	PROJECT SURVEYOR	SR. SURVEY ANALYST	SURVEY ANALYST	SURVEY TECHNICIAN	PROJECT COORDINATOR	LICENSED PARTY CHIEF**	CERTIFIED PARTY CHIEF**	PARTY CHIEF**	INSTRUMENTMAN**	CHAIRMAN**	APPRENTICE**	HOURS	COST
6.3.3 Review/coordination of Plats/Legals by County	8	80	80											168	\$ 36,979
6.4 Right of Entry Permits															
6.5 Acquisition & Negotiation															
6.6 Relocation Assistance															
6.7 Escrow Coordination															
6.8 Right-of-Way Certification															
6.9 Property Management															
6.10 Eminent Domain Support															
Task 7: Public Outreach															
7.1 Hotline, email, website-establish/maintain															
7.2 Collateral (fact sheet, FAQ, property acquisition overview)															
7.3 Stakeholder log															
7.4 Stakeholder presentations															
7.5 Map/canvass owners/neighbors															
7.6 Schedule/conduct one-on-one meetings															
Task 8: Coordination with County Environmental Consultant															
8.1 Coordination meetings with ICF & County															
8.2 Input to regulatory agency permits by ICF															

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Monument	SCOPE OF WORK: Right-of-way and utility coordination services	PHASE: All Phases
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE: 7/3/2023

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Joey Mendoza	Principal		\$111.42	
Kim Bibolet	Project Manager		\$82.73	
July Yokogawa	Sr. Acquisition Agent		\$47.46	
Jesse Ortiz	Sr. Relocation Agent		\$52.88	
Cami Stigall	Acquisition/Relocation Agent		\$37.14	
Alex Flores	Acquisition/Relocation Agent		\$36.06	
Tiffany McCloud	Project Support Specialist		\$31.25	
Curtis Bibolet	Utility Manager/Property Manager	570	@ \$67.69	\$38,583.30
Pete Castelan	Utility Coordinator	581	@ \$43.27	\$25,139.87

TOTAL HOURS **1,151** TOTAL DIRECT LABOR **\$63,723.17**

MULTIPLIERS

ESCALATION @	3.00%	(Rates Vary by Phase)	
OVERHEAD @	112.25%	(of Direct Labor + Escalation)	\$71,529.26
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE)	10.0%		\$13,525.24
TOTAL MULTIPLIERS			\$85,054.50

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Full Take Residential Appraisals			\$3,000.00	
Full Take Commercial Appraisal			\$7,000.00	
Full Take Vacant Land Appraisals			\$3,000.00	
Partial Take Appraisal - Complex			\$6,000.00	
Partial Take Appraisal - Moderate			\$4,500.00	
Part Take Appraisal - Simple			\$3,000.00	
Appraisal Reviews - Moderate/Complex			\$2,250.00	
Appraisal Reviews - Simple			\$1,600.00	
F&E Appraisals			\$6,000.00	
Utility Potholing	60	EA	@ \$1,500.00	\$90,000.00
Asbestos Testing/Abatement			\$29,000.00	
Board Up			\$5,325.00	
Demolition			\$44,000.00	
Weed Abatement			\$3,000.00	
Fencing			\$5,000.00	
Debris Removal			\$3,000.00	

TOTAL ODC'S **\$90,000.00**

TOTAL **\$238,777.67**

SUBCONSULTANT FEE PROPOSAL WORKSHEET		
COMPANY: Monument	SCOPE OF WORK: Right-of-way and utility coordination services	PHASE: Phase II
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE: 7/3/2023

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Joey Mendoza	Principal		\$111.42	
Kim Bibolet	Project Manager		\$82.73	
July Yokogawa	Sr. Acquisition Agent		\$47.46	
Jesse Ortiz	Sr. Relocation Agent		\$52.88	
Cami Stigall	Acquisition/Relocation Agent		\$37.14	
Alex Flores	Acquisition/Relocation Agent		\$36.06	
Tiffany McCloud	Project Support Specialist		\$31.25	
Curtis Bibolet	Utility Manager/Property Manager	570	@ \$67.69	\$38,583.30
Pete Castelan	Utility Coordinator	581	@ \$43.27	\$25,139.87

TOTAL HOURS **1,151** TOTAL DIRECT LABOR **\$63,723.17**

MULTIPLIERS

ESCALATION @		(of Direct Labor)	
OVERHEAD @	112.25%	(of Direct Labor + Escalation)	\$71,529.26
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE)	10.0%		\$13,525.24
TOTAL MULTIPLIERS			\$85,054.50

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Full Take Residential Appraisals			\$3,000.00	
Full Take Commercial Appraisal			\$7,000.00	
Full Take Vacant Land Appraisals			\$3,000.00	
Partial Take Appraisal - Complex			\$6,000.00	
Partial Take Appraisal - Moderate			\$4,500.00	
Part Take Appraisal - Simple			\$3,000.00	
Appraisal Reviews - Moderate/Complex			\$2,250.00	
Appraisal Reviews - Simple			\$1,600.00	
F&E Appraisals			\$6,000.00	
Utility Potholing	60	EA	@ \$1,500.00	\$90,000.00
Asbestos Testing/Abatement			\$29,000.00	
Board Up			\$5,325.00	
Demolition			\$44,000.00	
Weed Abatement			\$3,000.00	
Fencing			\$5,000.00	
Debris Removal			\$3,000.00	

TOTAL ODC'S **\$90,000.00**

TOTAL **\$238,777.67**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Monument		SCOPE OF WORK: Right-of-way and utility coordination services	PHASE: Phase IV
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary			DATE: 7/3/2023

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Joey Mendoza	Principal		\$111.42	
Kim Bibolet	Project Manager		\$82.73	
July Yokogawa	Sr. Acquisition Agent		\$47.46	
Jesse Ortiz	Sr. Relocation Agent		\$52.88	
Cami Stigall	Acquisition/Relocation Agent		\$37.14	
Alex Flores	Acquisition/Relocation Agent		\$36.06	
Tiffany McCloud	Project Support Specialist		\$31.25	
Curtis Bibolet	Utility Manager/Property Manager		\$67.69	
Pete Castelan	Utility Coordinator		\$43.27	

TOTAL HOURS TOTAL DIRECT LABOR

MULTIPLIERS

ESCALATION @	(of Direct Labor)
OVERHEAD @	112.25% (of Direct Labor + Escalation)
PAYROLL ADDITIVES @	(of Direct Labor + Escalation)
PROFIT (FIXED FEE)	10.0%

TOTAL MULTIPLIERS

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Full Take Residential Appraisals			\$3,000.00	
Full Take Commercial Appraisal			\$7,000.00	
Full Take Vacant Land Appraisals			\$3,000.00	
Partial Take Appraisal - Complex			\$6,000.00	
Partial Take Appraisal - Moderate			\$4,500.00	
Part Take Appraisal - Simple			\$3,000.00	
Appraisal Reviews - Moderate/Complex			\$2,250.00	
Appraisal Reviews - Simple			\$1,600.00	
F&E Appraisals			\$6,000.00	
Utility Potholing			\$1,500.00	
Asbestos Testing/Abatement			\$29,000.00	
Board Up			\$5,325.00	
Demolition			\$44,000.00	
Weed Abatement			\$3,000.00	
Fencing			\$5,000.00	
Debris Removal			\$3,000.00	

TOTAL ODC'S

TOTAL

SUBCONSULTANT MANHOUR WORKSHEET SUMMARY

COMPANY Monument	SCOPE OF WORK Right-of-way and utility coordination services	PHASE All Phases
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary	DATE July 3, 2023	

TASK	PRINCIPAL	PROJECT MANAGER	SR. ACQUISITION AGENT	SR. RELOCATION AGENT	ACQUISITION/RELOCATION AGENT	ACQUISITION/RELOCATION AGENT	PROJECT SUPPORT SPECIALIST	UTILITY MANAGER/PROPERTY MANAGER	UTILITY COORDINATOR	HOURS
	\$260.14	\$193.15	\$110.81	\$123.46	\$86.71	\$84.19	\$72.96	\$158.04	\$101.02	

PHASE TOTALS										570	581	1,151
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PHASE I												
PHASE II										570	581	1,151
PHASE III												
PHASE IV												

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: Monument	SCOPE OF WORK: Right-of-way and utility coordination services	PHASE: Phase II
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary	DATE: July 3, 2023	

TASK	PRINCIPAL	PROJECT MANAGER	SR. ACQUISITION AGENT	SR. RELOCATION AGENT	ACQUISITION/RELOCATION AGENT	ACQUISITION/RELOCATION AGENT	PROJECT SUPPORT SPECIALIST	UTILITY MANAGER/PROPERTY MANAGER	UTILITY COORDINATOR	HOURS	COST
	\$260.14	\$193.15	\$110.81	\$123.46	\$86.71	\$84.19	\$72.96	\$158.04	\$101.02		

Total Manhours										570	581	1,151
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TASK	PRINCIPAL	PROJECT MANAGER	SR. ACQUISITION AGENT	SR. RELOCATION AGENT	ACQUISITION/RELOCATION AGENT	ACQUISITION/RELOCATION AGENT	PROJECT SUPPORT SPECIALIST	UTILITY MANAGER/PROPERTY MANAGER	UTILITY COORDINATOR	HOURS	COST
Task 1: Project Management/Administration											
1.1 Project Management/Administration											
1.2 Schedules											
1.3 Progress Reports											
1.4 Design QMP											
1.5 Project Management Plan											
1.6 PDT Meetings											
Task 2: GAD/35% Plans & Estimate											
2.1 Data Collection											
2.2 R/W Engineering Services											
2.3 Utility Coordination & Base Plan											
2.4 Encroachment permit coordination							36	38		74	\$ 9,528
2.5 Design Surveys, Aerial Mapping, Right of Entry Coordination with County											
2.6 Preliminary construction cost estimate											
2.7 Geometric refinements											
2.8 Nonstandard design features identification & approvals											
2.9 Drainage Pre-Design Validation/Stormwater Management Coord											
2.10 Geotechnical Exploration											
2.11 Preliminary Foundation Report											
2.12 Structure Type Selection (Cajalco Creek Bridge)											
2.13 Bridge Type Selection Meeting & Approval											
2.14 Hazardous Waste											
2.15 EMWD Evaluations & Coordination											
2.16 Geometric Approval Drawings											
2.17 Planting Concept Strip Plans											
2.18 35% submittal construction cost estimate											
2.19 35% submittal											
Task 3: Intermediate PS&E (65% PS&E)											
3.1 Roadway Plans											
Title sheet											
Strip map											
Typical sections											
Project Control (by County)											
Layout sheets											
Profile/Superelevation sheets											
Construction Details											
Contour Grading											
Drainage Plan											
Drainage Profiles											
Drainage Details											
Utility Plans											
Traffic Control/Detour Plans											

SUBCONSULTANT MANHOOR WORKSHEET

COMPANY: Monument	SCOPE OF WORK: Right-of-way and utility coordination services	PHASE: Phase II
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE: July 3, 2023

TASK											HOURS	COST
	PRINCIPAL	PROJECT MANAGER	SR. ACQUISITION AGENT	SR. RELOCATION AGENT	ACQUISITION/RELOCATION AGENT	ACQUISITION/RELOCATION AGENT	PROJECT SUPPORT SPECIALIST	UTILITY MANAGER/PROPERTY MANAGER	UTILITY COORDINATOR			
Sign & Pavement Delineation Plans & Details												
Signal/Lighting/Electrical Systems Plans & Details												
Irrigation & Planting Plans & Details												
3.2 Bridge Plans												
<u>Cajalco Creek Bridge</u>												
General Plan												
General Notes-Index to Plans												
Deck Contours												
Foundation Plan												
Abutments Layout												
Abutment Details												
Bent Layout												
Bent Details												
Typical Sections												
Girder Layout												
Prestressing Notes												
Girder Details & Camber Diagrams												
Utility Details												
Deck Drainage Details												
Slope Paving												
<u>Cajalco Creek Box Culvert Replacement</u>												
General Plan												
General Notes-Index to Plans												
Foundation Plan												
Box Culvert Details												
3.3 Geotechnical Report												
3.4 Foundation Report												
3.5 Design Drainage Report												
3.5 Utility Coordination & Potholing									40	25		65 \$ 8,847
3.6 Draft SWPPP												
3.7 Specifications/Special Provisions												
3.8 65% construction cost estimate												
3.9 65% Submittal												
Task 4: Draft PS&E (95% PS&E)												
Task 4.1: 90% Checked Bridge Plans/Intermediate Structure PS&E												
4.1.1 Bridge Plans												
<u>Cajalco Creek Bridge</u>												
General Plan												
General Notes-Index to Plans												
Deck Contours												
Foundation Plan												
Abutments Layout												
Abutment Details												
Bent Layout												
Bent Details												
Typical Sections												
Girder Layout												

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: Monument	SCOPE OF WORK: Right-of-way and utility coordination services	PHASE: Phase II
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary	DATE: July 3, 2023	

TASK	PERSONNEL										HOURS	COST
	PRINCIPAL	PROJECT MANAGER	SR. ACQUISITION AGENT	SR. RELOCATION AGENT	ACQUISITION/RELOCATION AGENT	ACQUISITION/RELOCATION AGENT	PROJECT SUPPORT SPECIALIST	UTILITY MANAGER/PROPERTY MANAGER	UTILITY COORDINATOR			
Prestressing Notes												
Girder Details & Camber Diagrams												
Utility Details												
Deck Drainage Details												
Slope Paving												
Cajalco Creek Box Culvert Replacement												
General Plan												
General Notes-Index to Plans												
Foundation Plan												
Box Culvert Details												
4.1.2 90% Structures Specifications												
4.1.3 90% Quantities & Structures Cost Estimate												
4.1.4 Structure Design Calculations												
4.1.5 Structure Independent Check Calculations												
4.1.6 Geotechnical Coordination & Foundation Report												
4.1.7 Responses to Agency Comments												
Task 4.2 95% Draft Final Structures PS&E												
4.2.1 Bridge Plans												
Cajalco Creek Bridge												
General Plan												
General Notes-Index to Plans												
Deck Contours												
Foundation Plan												
Abutments Layout												
Abutment Details												
Bent Layout												
Bent Details												
Typical Sections												
Girder Layout												
Prestressing Notes												
Girder Details & Camber Diagrams												
Utility Details												
Deck Drainage Details												
Slope Paving												
Cajalco Creek Box Culvert Replacement												
General Plan												
General Notes-Index to Plans												
Foundation Plan												
Box Culvert Details												
4.2.2 95% Structures Specifications												
4.2.3 95% Structures Cost Estimate												
4.2.4 Responses to Agency Comments												
Task 4.3: Roadway 95% PS&E												
4.3.1 Roadway Plans												
Title sheet												
Strip map												

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY Monument	SCOPE OF WORK Right-of-way and utility coordination services	PHASE Phase II
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE July 3, 2023

TASK	PERSONNEL										HOURS	COST
	PRINCIPAL	PROJECT MANAGER	SR. ACQUISITION AGENT	SR. RELOCATION AGENT	ACQUISITION/RELOCATION AGENT	ACQUISITION/RELOCATION AGENT	PROJECT SUPPORT SPECIALIST	UTILITY MANAGER/PROPERTY MANAGER	UTILITY COORDINATOR			
Typical sections												
Project Control (by County)												
Layout sheets												
Profile/Superelevation sheets												
Construction Details												
Contour Grading												
Drainage Plan												
Drainage Profiles												
Drainage Details												
Utility Plans												
Traffic Control/Detour Plans												
Sign & Pavement Delineation Plans & Details												
Signal/Lighting/Electrical Systems Plans & Details												
Irrigation & Planting Plans & Details												
4.3.2 Responses to Agency Comments												
4.3.3 Geotechnical Report												
4.3.4 Drainage Report												
4.3.5 Utility Coordination							286	208			494	\$ 66,212
4.3.6 Draft SWPPP												
4.3.7 Specifications/Special Provisions												
4.3.8 95% construction cost estimate												
4.3.9 95% Submittal												
Task 5: Final PS&E (100% PS&E)												
5.1 Roadway Plans												
Title sheet												
Strip map												
Typical sections												
Project Control (by County)												
Layout sheets												
Profile/Superelevation sheets												
Construction Details												
Contour Grading												
Drainage Plan												
Drainage Profiles												
Drainage Details												
Utility Plans												
Traffic Control/Detour Plans												
Sign & Pavement Delineation Plans & Details												
Signal/Lighting/Electrical Systems Plans & Details												
Irrigation & Planting Plans & Details												
5.2 Responses to Agency Comments												
5.3 Geotechnical Report												
5.4 Drainage Report												
5.5 Utility Coordination							208	310			518	\$ 64,190
5.6 Draft SWPPP												
5.7 Specifications/Special Provisions												
5.8 100% construction cost estimate												

SUBCONSULTANT MANHOOR WORKSHEET

COMPANY: Monument	SCOPE OF WORK: Right-of-way and utility coordination services	PHASE: Phase II
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary	DATE: July 3, 2023	

TASK	PRINCIPAL	PROJECT MANAGER	SR. ACQUISITION AGENT	SR. RELOCATION AGENT	ACQUISITION/RELOCATION AGENT	ACQUISITION/RELOCATION AGENT	PROJECT SUPPORT SPECIALIST	UTILITY MANAGER/PROPERTY MANAGER	UTILITY COORDINATOR													HOURS	COST											
5.9 100% Submittal																																		
Task 6: RW Acquisitions																																		
6.1 Right of Way Requirements Map (2 submittals max)																																		
6.2 Right of Way Cost Estimates and Data Sheets																																		
6.3 Appraisals																																		
6.3.1 Appraisal Reports																																		
6.3.2 Review/coordination of Appraisal Maps by County																																		
6.3.3 Review/coordination of Plats/Legals by County																																		
6.4 Right of Entry Permits																																		
6.5 Acquisition & Negotiation																																		
6.6 Relocation Assistance																																		
6.7 Escrow Coordination																																		
6.8 Right-of-Way Certification																																		
6.9 Property Management																																		
6.10 Eminent Domain Support																																		
Task 7: Public Outreach																																		
7.1 Hotline, email, website-establish/maintain																																		
7.2 Collateral (fact sheet, FAQ, property acquisition overview)																																		
7.3 Stakeholder log																																		
7.4 Stakeholder presentations																																		
7.5 Map/canvass owners/neighbors																																		
7.6 Schedule/conduct one-on-one meetings																																		
Task 8: Coordination with County Environmental Consultant																																		
8.1 Coordination meetings with ICF & County																																		
8.2 Input to regulatory agency permits by ICF																																		

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: Monument	SCOPE OF WORK: Right-of-way and utility coordination services	PHASE: Phase III
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary	DATE: July 3, 2023	

TASK	PRINCIPAL	PROJECT MANAGER	SR. ACQUISITION AGENT	SR. RELOCATION AGENT	ACQUISITION/RELOCATION AGENT	ACQUISITION/RELOCATION AGENT	PROJECT SUPPORT SPECIALIST	UTILITY MANAGER/PROPERTY MANAGER	UTILITY COORDINATOR	HOURS	COST
	\$260.14	\$193.15	\$110.81	\$123.46	\$86.71	\$84.19	\$72.96	\$158.04	\$101.02		

Total Manhours

Task 1 Attend Pre-Bid Meeting													
Task 2 Respond to Inquiries													
Task 3 Issue Addenda (2 max)													
Task 4 Coordination with County													

SUBCONSULTANT MANHOUR WORKSHEET SUMMARY

COMPANY: Costin Public Outreach Group, Inc.	SCOPE OF WORK: Public Outreach	PHASE: All Phases
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary		DATE: January 30, 2023

TASK	OUTREACH MANAGER	LEAD COMMUNITY LIAISON	COMMUNITY LIAISON	ACCOUNT COORDINATOR	ACCOUNT COORDINATOR	GRAPHIC DESIGNER													HOURS
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\$174.48 \$152.58 \$124.63 \$72.60 \$72.60 \$108.90

PHASE TOTALS

100	210	180	240	240	70													1,040
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PHASE I																		
PHASE II																		
PHASE III																		
PHASE IV																		

100	210	180	240	240	70													1,040

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: Costin Public Outreach Group, Inc.	SCOPE OF WORK: Public Outreach	PHASE: Phase II
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary	DATE: January 30, 2023	

TASK	OUTREACH MANAGER	LEAD COMMUNITY LIAISON	COMMUNITY LIAISON	ACCOUNT COORDINATOR	ACCOUNT COORDINATOR	GRAPHIC DESIGNER	HOURS	COST
	\$174.48	\$152.55	\$124.63	\$72.60	\$72.60	\$108.90		

Total Manhours	100	210	180	240	240	70	1,040
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Task 1: Project Management/Administration								
1.1 Project Management/Administration								
1.2 Schedules								
1.3 Progress Reports								
1.4 Design QMP								
1.5 Project Management Plan								
1.6 PDT Meetings								
Task 2: GAD/35% Plans & Estimate								
2.1 Data Collection								
2.2 R/W Engineering Services								
2.3 Utility Coordination & Base Plan								
2.4 Encroachment permit coordination								
2.5 Design Surveys, Aerial Mapping, Right of Entry Coordination with County								
2.6 Preliminary construction cost estimate								
2.7 Geometric refinements								
2.8 Nonstandard design features identification & approvals								
2.9 Drainage Pre-Design Validation/Stormwater Management Coord								
2.10 Geotechnical Exploration								
2.11 Preliminary Foundation Report								
2.12 Structure Type Selection (Cajalco Creek Bridge)								
2.13 Bridge Type Selection Meeting & Approval								
2.14 Hazardous Waste								
2.15 EMWD Evaluations & Coordination								
2.16 Geometric Approval Drawings								
2.17 Planting Concept Strip Plans								
2.18 35% submittal construction cost estimate								
2.19 35% submittal								
Task 3: Intermediate PS&E (65% PS&E)								
3.1 Roadway Plans								
Title sheet								
Strip map								
Typical sections								
Project Control (by County)								
Layout sheets								
Profile/Superelevation sheets								
Construction Details								
Contour Grading								
Drainage Plan								
Drainage Profiles								
Drainage Details								
Utility Plans								
Traffic Control/Detour Plans								
Sign & Pavement Delineation Plans & Details								

SUBCONSULTANT MANHOOR WORKSHEET

COMPANY: Costin Public Outreach Group, Inc.	SCOPE OF WORK: Public Outreach	PHASE: Phase II
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary	DATE: January 30, 2023	

TASK	ROLES							HOURS	COST
	OUTREACH MANAGER	LEAD COMMUNITY LIAISON	COMMUNITY LIAISON	ACCOUNT COORDINATOR	ACCOUNT COORDINATOR	GRAPHIC DESIGNER			
Signal/Lighting/Electrical Systems Plans & Details									
Irrigation & Planting Plans & Details									
3.2 Bridge Plans									
Cajalco Creek Bridge									
General Plan									
General Notes-Index to Plans									
Deck Contours									
Foundation Plan									
Abutments Layout									
Abutment Details									
Bent Layout									
Bent Details									
Typical Sections									
Girder Layout									
Prestressing Notes									
Girder Details & Camber Diagrams									
Utility Details									
Deck Drainage Details									
Slope Paving									
Cajalco Creek Box Culvert Replacement									
General Plan									
General Notes-Index to Plans									
Foundation Plan									
Box Culvert Details									
3.3 Geotechnical Report									
3.4 Foundation Report									
3.5 Design Drainage Report									
3.5 Utility Coordination & Potholing									
3.6 Draft SWPPP									
3.7 Specifications/Special Provisions									
3.8 65% construction cost estimate									
3.9 65% Submittal									
Task 4: Draft PS&E (95% PS&E)									
Task 4.1: 90% Checked Bridge Plans/Intermediate Structure PS&E									
4.1.1 Bridge Plans									
Cajalco Creek Bridge									
General Plan									
General Notes-Index to Plans									
Deck Contours									
Foundation Plan									
Abutments Layout									
Abutment Details									
Bent Layout									
Bent Details									
Typical Sections									
Girder Layout									
Prestressing Notes									
Girder Details & Camber Diagrams									

SUBCONSULTANT MANHOOR WORKSHEET

COMPANY: Costin Public Outreach Group, Inc.	SCOPE OF WORK Public Outreach	PHASE Phase II
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary	DATE: January 30, 2023	

TASK	PERSONNEL							HOURS	COST
	OUTREACH MANAGER	LEAD COMMUNITY LIAISON	COMMUNITY LIAISON	ACCOUNT COORDINATOR	ACCOUNT COORDINATOR	GRAPHIC DESIGNER			
Utility Details									
Deck Drainage Details									
Slope Paving									
Cajalco Creek Box Culvert Replacement									
General Plan									
General Notes-Index to Plans									
Foundation Plan									
Box Culvert Details									
4.1.2 90% Structures Specifications									
4.1.3 90% Quantities & Structures Cost Estimate									
4.1.4 Structure Design Calculations									
4.1.5 Structure Independent Check Calculations									
4.1.6 Geotechnical Coordination & Foundation Report									
4.1.7 Responses to Agency Comments									
Task 4.2 95% Draft Final Structures PS&E									
4.2.1 Bridge Plans									
Cajalco Creek Bridge									
General Plan									
General Notes-Index to Plans									
Deck Contours									
Foundation Plan									
Abutments Layout									
Abutment Details									
Bent Layout									
Bent Details									
Typical Sections									
Girder Layout									
Prestressing Notes									
Girder Details & Camber Diagrams									
Utility Details									
Deck Drainage Details									
Slope Paving									
Cajalco Creek Box Culvert Replacement									
General Plan									
General Notes-Index to Plans									
Foundation Plan									
Box Culvert Details									
4.2.2 95% Structures Specifications									
4.2.3 95% Structures Cost Estimate									
4.2.4 Responses to Agency Comments									
Task 4.3: Roadway 95% PS&E									
4.3.1 Roadway Plans									
Title sheet									
Strip map									
Typical sections									
Project Control (by County)									
Layout sheets									

SUBCONSULTANT MANHOOR WORKSHEET

COMPANY: Costin Public Outreach Group, Inc.	SCOPE OF WORK: Public Outreach	PHASE: Phase II
PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary	DATE: January 30, 2023	

TASK	ROLES							HOURS	COST
	OUTREACH MANAGER	LEAD COMMUNITY LIAISON	COMMUNITY LIAISON	ACCOUNT COORDINATOR	ACCOUNT COORDINATOR	GRAPHING DESIGNER			
Profile/Superelevation sheets									
Construction Details									
Contour Grading									
Drainage Plan									
Drainage Profiles									
Drainage Details									
Utility Plans									
Traffic Control/Detour Plans									
Sign & Pavement Delineation Plans & Details									
Signal/Lighting/Electrical Systems Plans & Details									
Irrigation & Planting Plans & Details									
4.3.2 Responses to Agency Comments									
4.3.3 Geotechnical Report									
4.3.4 Drainage Report									
4.3.5 Utility Coordination									
4.3.6 Draft SWPPP									
4.3.7 Specifications/Special Provisions									
4.3.8 95% construction cost estimate									
4.3.9 95% Submittal									
Task 5: Final PS&E (100% PS&E)									
5.1 Roadway Plans									
Title sheet									
Strip map									
Typical sections									
Project Control (by County)									
Layout sheets									
Profile/Superelevation sheets									
Construction Details									
Contour Grading									
Drainage Plan									
Drainage Profiles									
Drainage Details									
Utility Plans									
Traffic Control/Detour Plans									
Sign & Pavement Delineation Plans & Details									
Signal/Lighting/Electrical Systems Plans & Details									
Irrigation & Planting Plans & Details									
5.2 Responses to Agency Comments									
5.3 Geotechnical Report									
5.4 Drainage Report									
5.5 Utility Coordination									
5.6 Draft SWPPP									
5.7 Specifications/Special Provisions									
5.8 100% construction cost estimate									
5.9 100% Submittal									
Task 6: RW Acquisitions									
6.1 Right of Way Requirements Map (2 submittals max)									

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY Costin Public Outreach Group, Inc.	SCOPE OF WORK Public Outreach	PHASE Phase II
PROJECT Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary	DATE January 30, 2023	

TASK	PERSONNEL							HOURS	COST
	OUTREACH MANAGER	LEAD COMMUNITY LIAISON	COMMUNITY LIAISON	ACCOUNT COORDINATOR	ACCOUNT COORDINATOR	GRAPHIC DESIGNER			
6.2 Right of Way Cost Estimates and Data Sheets									
6.3 Appraisals									
6.3.1 Appraisal Reports									
6.3.2 Review/coordination of Appraisal Maps by County									
6.3.3 Review/coordination of Plats/Legals by County									
6.4 Right of Entry Permits									
6.5 Acquisition & Negotiation									
6.6 Relocation Assistance									
6.7 Escrow Coordination									
6.8 Right-of-Way Certification									
6.9 Property Management									
6.10 Eminent Domain Support									
Task 7: Public Outreach									
7.1 Hotline, email, website-establish/maintain	20	40	20	50	50			180	\$ 19,345
7.2 Collateral (fact sheet, FAQ, property acquisition over	10	30	20	10	10	70		150	\$ 17,890
7.3 Stakeholder log	10	20	20	50	50			150	\$ 14,549
7.4 Stakeholder presentations	20	40	40	30	30			160	\$ 18,934
7.5 Map/canvass owners/neighbors	20	40	40	70	70			240	\$ 24,742
7.6 Schedule/conduct one-on-one meetings	20	40	40	30	30			160	\$ 18,934
Task 8: Coordination with County Environmental Consultant									
8.1 Coordination meetings with ICF & County									
8.2 Input to regulatory agency permits by ICF									

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: Costin Public Outreach Group, Inc.	SCOPE OF WORK: Public Outreach	PHASE: Phase IV
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PROJECT: Cajalco Road Segment I PS&E, Wood Road to Seaton Avenue Fee Proposal Summary	DATE: January 30, 2023
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TASK							HOURS	COST
	OUTREACH MANAGER	LEAD COMMUNITY LIAISON	COMMUNITY LIAISON	ACCOUNT COORDINATOR	ACCOUNT COORDINATOR	GRAPHIC DESIGNER		
	\$174.48	\$152.58	\$124.63	\$72.60	\$72.60	\$108.90		

Total Manhours

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Task 1 Pre-construction meeting																							
Task 2 Review/respond to Requests for Information																							
Task 3 Shop drawing/contract change order assessments																							
Task 4 Additional drawings at County's request																							
Task 5 Site visits																							
Task 6 Coordination for DSDC																							
Task 7 As-built plans																							