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



(ID # 14765)

MEETING DATE:

Tuesday, April 20, 2021

FROM:

TLMA-TRANSPORTATION:

SUBJECT: TRANSPORTATION AND LAND MANAGEMENT AGENCY/TRANSPORTATION: Approval of the Engineering and Environmental Services Agreement between the County of Riverside and Dokken Engineering for the Replacement of the Airport Blvd. Bridge Over Whitewater River (Br. No. 56C-0020) in Thermal, District 4. [\$1,961,702 Total Cost - Federal Funds 89% and Gas Tax 11%]

RECOMMENDED MOTION: That the Board of Supervisors:

1. Approve the Engineering Services Agreement between the County of Riverside and Dokken Engineering for Engineering and Environmental Services for the Replacement of the Airport Blvd. Bridge Over Whitewater River (Br. No. 56C-0020) in the amount of \$1,961,701.59 for Fiscal Years 20/21-25/26 and authorize the Chair of the Board to execute the same.

ACTION:Policy

Lancaster, Director of Transportation 3/24/2021

MINUTES OF THE BOARD OF SUPERVISORS

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

Ayes:

Jeffries, Spiegel, Washington, Perez, and Hewitt

Nays:

None

Absent: Date:

None April 20, 2021

XC:

Transp.

Kecia R. Harper

Clerk of the Board

Deputy

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FINANCIAL DATA	Current Fiscal Year:	Next Fiscal Years:	Total Cost:	Ongoing Cost
COST	\$ 1,150,000	\$ 811,701.59	\$ 1,961,701.59	\$ 0
NET COUNTY COST	\$0	\$ 0	\$0	\$ 0
SOURCE OF FUNDS: Federal (HBP) Highway Bridge			Budget Adjustment: No	
Program (88.53%), Gas Tax (11.47%). There are no General Funds used in this project.			For Fiscal Year: 20/21-25/26	

C.E.O. RECOMMENDATION: Approve

BACKGROUND:

Summary

The County of Riverside is proposing to replace the existing Airport Boulevard Bridge over the Whitewater River aka Coachella Valley Stormwater Channel (CVSC) in the Thermal Area. The bridge was built in 1951, as a reinforced concrete slab type bridge. In 1969 a flood damaged the mid-section of the bridge and the damaged section of the bridge was replaced with a 140-feet long Precast "I" Girder type bridge structure.

The Airport Boulevard Bridge has also been identified as Scour Critical by the State Department of Transportation (CALTRANS), which can compromise the structural stability of the existing bridge during a major flooding event. As a plan of action several options were considered by the County to identify a possible scour countermeasure, the total replacement option turned out to be the most prudent and cost-effective solution. A Technical Memorandum has been submitted to CALTRANS establishing a need for a wider bridge to accommodate future traffic and pedestrian needs. The final determination on the total width of the bridge and number of lanes by CALTRANS (Highway Bridge Program, HBP) is still pending.

The Coachella Valley Water District (CVWD) has an on-going CVSC improvement project to lower the riverbed by approximately 5 feet and install concrete lining from bank to bank underneath the Airport Boulevard Bridge. Lowering the channel will adversely affect the bridge's integrity and stability for service loads. The County in collaboration with CVWD has prepared bridge interim rehabilitation plans, to protect the bridge until the existing bridge is fully replaced with a new bridge.

The existing Airport Boulevard Bridge has two traffic lanes, one in each direction. To the West of the Airport Boulevard Bridge, the County constructed a four-lane grade separation structure over the UPRR tracks. On to the East CALTRANS constructed a new overcrossing structure over SR-86 easterly of the Whitewater River Bridge. With these two improvement projects on both ends of the Airport Boulevard Bridge, the existing bridge over Whitewater River with a narrow 2-lane road section has become a geometric bottleneck that restricts free movement of traffic on Airport Boulevard Bridge during peak hours. According to recent preliminary traffic studies, two traffic lanes suffice the need, however, this bridge is heavily used by

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

pedestrian/foot traffic and continuous growth in the adjacent areas will trigger the need for a wider bridge in the coming years.

A Request for Qualifications (RFQ) was published on the Transportation Department's website and the Press Enterprise newspaper to establish a pre-qualified list of consultants to provide Engineering and Environmental services for various projects identified in the TIP. To comply with the funding requirements, the department opted to use CALTRANS Local Assistance Procedures Manual (LAPM) Chapter 10 two-step process. Sixteen (16) firms submitted Statement of Qualifications (SOQ) as a first step in the selection process, which were carefully reviewed and evaluated by representatives of the Department. All firms selected in the first step were requested to submit their technical proposals and oral presentations. The selection committee concluded the final ranking for the consultants, according to the criteria set forth in the request for proposals and selected Dokken Engineer as the highest ranked firm to provide the necessary environmental and engineering services. The detailed scope and the negotiated fee for performing preliminary engineering and environmental documentation to clear the bridge replacement project are provided in Appendices "A" and "C" of the subject agreement.

Based on the structural condition of the bridge, the Airport Boulevard Bridge is eligible for full replacement using federal (HBP) funds and no County General funds will be used.

Dokken Engineers will begin work with a written Notice to Proceed (NTP) by the Director of Transportation, or designee.

Impact on Residents and Businesses

Informal public information meetings will be held as necessary during the development of the project to keep the public informed. The project is expected to have minimum impact on the surrounding environment and the community during development and construction. The replacement bridge will be designed in accordance with the latest state of the art bridge design criteria.

SUPPLEMENTAL:

Additional Fiscal Information

The consultant's proposed fee for the Scope of Work is \$1,961,701.59, which includes design of full capacity bridge with four lanes (wider bridge, Option No. 1). In the event the project replaces the existing bridge with a new 36ft-38ft wide bridge (narrower bridge, Option No. 2), the total amount of the contract is not to exceed \$1,471,276.19. It will be funded with federal 88.53% HBP funds with 11.47% of local matching funds from Gas Tax. The contract expiration date is December 31, 2026.

Preliminary and Environmental Documentation (PA&ED)
Plans, Specification and Estimate (PS&E) & Construction Support

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 For replacement of the existing bridge with new 4-lanes bridge (Option No. 1)

Total Contract:

\$1,961,701.59

Or

 For replacement of the existing bridge with a new 36ft-38ft wide bridge (Option No. 2)

Total Contract

\$1,471,276.19

Work Order No.: C4-0065

Contract History and Price Reasonableness

The consultant's negotiated fee proposal is below the County's independent fee estimate and is comparable to currently ongoing county projects of similar scope and complexity.

ATTACHMENTS:

Service Agreement - Dokken Engineering

Jason Farin, Principal Management Analyst

4/14/2021

Gregory V. Priapios, Director County Counse

4/14/2021

Contract No.:
Termination Date:
Amount Authorized:



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ENGINEERING SERVICES AGREEMENT

for

Replacement of Airport Boulevard Bridge

Over Whitewater River (Br. No. 56C-0020

between

County of Riverside • Transportation Department

and

Dokken Engineering



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10	In the event that the terms in any of the Attachments conflicts with the terms as provided in the Agreement, the trems of the Agreement shall prevail.
11	Scope of Services
12	Compensation Plan
13	ARTICLE I INTRODUCTION
14	A. This Consultant Services Agreement ("Agreement") is entered into this day of,
15	20, by and between COUNTY OF RIVERSIDE, a political subdivision of the State of California,
16	hereinafter referred to as "COUNTY", and [DOKKEN ENGINEERING], hereinafter referred to as
17	"CONSULTANT".
18	B. Coordination of CONSULTANT and COUNTY activities shall be accomplished through a CONSULTANT
19	Project Manager and a COUNTY Contract Administrator.
20	The CONSULTANT's Project Manager for CONSULTANT shall be:
21	Juann Ramos, PE
22	Located at:
23	110 Blue Ravine Road, Suite 200
24	Folsom CA, 95630
25	The COUNTY's Contract Administrator for COUNTY shall be:
26	Umer Ahmed, PE
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Located at:

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4080 Lemon Street 8th Floor

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Riverside CA, 92502

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C. CONSULTANT shall perform:

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The covenants set forth in Article III entitled Statement of Work; In accordance with the time frames set forth in Article IV entitled Performance Periods; For the fees set forth in Article V entitled Allowable Costs and

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7 Payments.

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D. CONSULTANT and the agents and employees of CONSULTANT, in the performance of this contract, shall

F. No alteration or variation of the terms of this contract shall be valid, unless made in writing and signed by the

G. The consideration to be paid to CONSULTANT as provided herein, shall be in compensation for all of

H. COUNTY is designated as the lead agency for PROJECT and is working cooperatively with other agencies in

Other public agencies that may be involved with the PROJECT including, but not limited to cooperative,

funding, reviewing, regulatory or operating agencies are listed below and will hereinafter be collectively

CONSULTANT's expenses incurred in the performance hereof, including travel and per diem, unless

parties hereto; and no oral understanding or agreement not incorporated herein, shall be binding on any of

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E. Without the written consent of COUNTY, this contract is not assignable by CONSULTANT either in whole or

act in an independent capacity and not as officers or employees or agents of COUNTY.

11 in part.

the parties hereto.

otherwise expressly so provided.

the effort to complete the PROJECT.

referred to as the "AGENCIES".

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Utility Companies

City of Coachella

CALTRANS

Regulatory Agencies including:

Riverside County Departments

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U.S. Army Corps of Engineers (USACE)

Federal Highway Administration (FHWA)

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U.S. Fish and Wildlife Service (USFWS)

California Department of Fish and Wildlife (CDFW)

Regional Water Quality Control Board (RWQCB)

Coachella Valley Water District (CVWD)

ARTICLE II CONSULTANT'S REPORTS OR MEETINGS

- A. To ensure understanding and performance of the contract objectives, meetings between COUNTY, AGENCIES, and CONSULTANT shall be held as often as deemed necessary (typically at least monthly). All work objectives, CONSULTANT's work schedule, the terms of the contract and any other related issues will be discussed and/or resolved. CONSULTANT shall keep minutes of meetings and distribute copies of minutes as appropriate. Progress reporting shall conform with the contract administration requirements of the COUNTY's Consulting Services Manual including providing updated copies of the following documents at each project coordination meeting.
 - Meeting Agendas
 - Meeting Sign-in Sheets
 - Meeting Minutes (prior meeting)
 - Action Items Tracking List
 - **Deliverables Tracking List**
 - Schedule Summary
- B. CONSULTANT's Project Manager shall meet with COUNTY's Contract Administrator, as needed, which could be as often as monthly, to discuss progress on the contract.

ARTICLE III STATEMENT OF WORK

- CONSULTANT shall furnish all technical and professional services including labor, material, equipment, transportation, supervision, and expertise to fully and adequately perform and complete the covenants set forth in Attachment A, Scope of Services, which is attached hereto and incorporated herein by reference.
- ARTICLE IV PERFORMANCE PERIOD
- A. This contract shall gr into effect on [April 20, 2021] contingent upon approval by COUNTY, and CONSULTANT shar commence work after notification to proceed by COUNTY'S Contract Administrator. The contract shall end on [April 20,2026], unless extended by contract amendment.
- B. CONSULTANT is advised that any recommendation for contract award is not binding on COUNTY until the

Consulting Services Agreement

contract is fully executed and approved by COUNTY.

C. Services provided under this contract may be performed in separate Milestones or Phases. The sequencing and scheduling of these Milestones or Phases is set forth in Attachment B, Schedule of Services, which is attached hereto and incorporated herein by reference.

ARTICLE V ALLOWABLE COSTS AND PAYMENTS

- A. The method of payment for this contract will be based on actual cost plus a fixed fee. COUNTY will reimburse CONSULTANT for actual costs (including labor costs, employee benefits, travel, equipment rental costs, overhead and other direct costs) incurred by CONSULTANT in performance of the work. CONSULTANT will not be reimbursed for actual costs that exceed the estimated wage rates, employee benefits, travel, equipment rental, overhead, and other estimated costs set forth in Attachment C, the CONSULTANT's Compensation Plan, which is attached hereto and incorporated herein by reference, unless additional reimbursement is provided for by contract amendment. In no event, will CONSULTANT be reimbursed for overhead costs at a rate that exceeds COUNTY's approved overhead rate set forth in the Compensation Plan. In the event, that COUNTY determines that a change to the work from that specified in the Contract is required, the contract time or actual costs reimbursable by COUNTY shall be adjusted by contract amendment to accommodate the changed work. The maximum total cost as specified in Article V.H shall not be exceeded, unless authorized by contract amendment.
- B. In addition to the allowable incurred costs, COUNTY will pay PRIME CONSULTANT a fixed fee of \$[140,521.72]. The fixed fee is nonadjustable for the term of the contract, except in the event of a significant change in the scope of work and such adjustment is made by contract amendment.
- C. Reimbursement for transportation and subsistence costs shall not exceed the rates specified in the Compensation Plan.
- D. When milestone or phase cost estimates are included in the Compensation Plan, CONSULTANT shall obtain prior written approval for a revised milestone or phase cost estimate from the COUNTY's Contract Administrator before exceeding such cost estimate.
- E. Progress payments will be made monthly in arrears based on services provided and allowable incurred costs.
 A pro rata portion of CONSULTANT's fixed fee will be included in the monthly progress payments. If
 CONSULTANT fails to submit the required deliverable items according to the schedule set forth in the
 Statement of Work, COUNTY shall have the right to delay payment or terminate this Contract in accordance

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28 29 F. No payment will be made prior to approval or for any work performed prior to approval of this AGREEMENT.

- G. CONSULTANT will be reimbursed, as promptly as fiscal procedures will permit upon receipt by COUNTY's Contract Administrator of itemized invoices. Invoices shall be submitted no later than 45 calendar days after the performance of work for which CONSULTANT is billing. Invoices shall detail the work performed on each Milestone or Phase and each project as applicable. Invoices shall follow the format stipulated for the Compensation Plan using the Project-specific & Multi-phase Contract Invoice templates provided in the COUNTY Consulting Services Manual and shall reference this contract number and project title. Final invoice must contain the final cost and all credits due COUNTY including any equipment purchased under the provisions of Article XI Equipment Purchase of this contract. The final invoice should be submitted within 60 calendar days after completion of CONSULTANT's work. Invoices shall be mailed to COUNTY's Contract Administrator at the address provided in Article I.B.
- H. The total amount payable by COUNTY including the fixed fee shall not exceed \$[1,961,701.59].
- Salary increases will be reimbursable if the new salary is within the salary range identified in the Compensation Plan and is approved by COUNTY's Contract Administrator.
- J. For personnel subject to prevailing wage rates as described in the California Labor Code, all salary increases, which are the direct result of changes in the prevailing wage rates are reimbursable.
- K. The services included under the terms of this contract are funded in whole or in part as noted below:

Federal funds:

with the provisions of Article VI Termination.

are included

[] are not included

State funds:

[X] are included

[] are not included

ARTICLE VI TERMINATION

- A. COUNTY reserves the right to terminate this contract upon thirty (30) calendar days written notice to CONSULTANT with the reasons for termination stated in the notice.
- B. COUNTY may terminate this contract with CONSULTANT should CONSULTANT fail to perform the covenants herein contained at the time and in the manner herein provided. In the event of such termination, COUNTY may proceed with the work in any manner deemed proper by COUNTY. If COUNTY terminates this contract with CONSULTANT, COUNTY shall pay CONSULTANT the sum due to CONSULTANT under this contract prior to termination, unless the cost of completion to COUNTY exceeds the funds remaining in the contract. In which case the overage shall be deducted from any sum due CONSULTANT under this contract

and the balance, if any, shall be paid to CONSULTANT upon demand.

ARTICLE VII COST PRINCIPLES AND ADMINISTRATIVE REQUIREMENTS

- A. CONSULTANT agrees that the Contract Cost Principles and Procedures, 48 CFR, Federal Acquisition Regulations System, Chapter 1, Part 31.000 et seq., shall be used to determine the cost allowability of individual items.
- B. CONSULTANT also agrees to comply with federal procedures in accordance with 2 CFR, Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards.
- C. Any costs for which payment has been made to CONSULTANT that are determined by subsequent audit to be unallowable under 2 CFR, Part 200 and 48 CFR, Federal Acquisition Regulations System, Chapter 1, Part 31.000 et seq., are subject to repayment by CONSULTANT to COUNTY.

ARTICLE VIII RETENTION OF RECORDS/AUDIT

For the purpose of determining compliance with Public Contract Code 10115, et seq. and Title 21, California Code of Regulations, Chapter 21, Section 2500 et seq., when applicable and other matters connected with the performance of the contract pursuant to Government Code 8546.7; CONSULTANT, subconsultants, and COUNTY shall maintain and make available for inspection all books, documents, papers, accounting records, and other evidence pertaining to the performance of the contract, including but not limited to, the costs of administering the contract. All parties shall make such materials available at their respective offices at all reasonable times during the contract period and for three years from the date of final payment under the contract. The state, State Auditor, COUNTY, FHWA, or any duly authorized representative of the Federal Government shall have access to any books, records, and documents of CONSULTANT and it's certified public accountants (CPA) work papers that are pertinent to the contract and indirect cost rates (ICR) for audit, examinations, excerpts, and transactions, and copies thereof shall be furnished if requested.

ARTICLE IX AUDIT REVIEW PROCEDURES

- A. Any dispute concerning a question of fact arising under an interim or post audit of this contract that is not disposed of by agreement, shall be reviewed by COUNTY'S Chief Financial Officer.
- B. Not later than 30 days after issuance of the final audit report, CONSULTANT may request a review by COUNTY'S Chief Financial Officer of unresolved audit issues. The request for review will be submitted in writing.
- C. Neither the pendency of a dispute nor its consideration by COUNTY will excuse CONSULTANT from full and

timely performance, in accordance with the terms of this contract.

D. Audit Terms and Conditions if the amount shown in Article V.H is greater than \$150,000 and less than \$3,500,000.

CONSULTANT and subconsultant contracts, including cost proposals and ICR, are subject to audits or reviews such as, but not limited to, a contract audit, an incurred cost audit, an ICR Audit, or a CPA ICR audit work paper review. If selected for audit or review, the contract, cost proposal and ICR and related work papers, if applicable, will be reviewed to verify compliance with 48 CFR, Part 31 and other related laws and regulations. In the instances of a CPA ICR audit work paper review it is CONSULTANT's responsibility to ensure federal, state, or local government officials are allowed full access to the CPA's work papers including making copies as necessary. The contract, cost proposal, and ICR shall be adjusted by CONSULTANT and approved by COUNTY contract manager to conform to the audit or review recommendations. CONSULTANT agrees that individual terms of costs identified in the audit report shall be incorporated into the contract by this reference if directed by COUNTY at its sole discretion. Refusal by CONSULTANT to incorporate audit or review recommendations, or to ensure that the federal, state or local governments have access to CPA work papers, will be considered a breach of contract terms and cause for termination of the contract and disallowance of prior reimbursed costs.

E. Audit Terms and Conditions if the amount shown in Article V.H is \$3,500,000 or greater and if Article V.K identifies that Federal or State funds are used, in whole or in part, to fund the services performed under this contract then compliance with the auditing provisions as described below is required. If the services are not identified as funded in whole or in part with Federal or State funds then compliance with the auditing provisions of Article IX.D shall apply.

CONSULTANT Cost Proposal is subject to a CPA ICR Audit Work Paper Review by Caltrans' Audit and Investigation (Caltrans). Caltrans, at its sole discretion, may review and/or audit and approve the CPA ICR documentation. The Cost Proposal shall be adjusted by the CONSULTANT and approved by the COUNTY Contract Administrator to conform to the Work Paper Review recommendations included in the management letter or audit recommendations included in the audit report. Refusal by the CONSULTANT to incorporate the Work Paper Review recommendations included in the management letter or actual recommendations included in the audit report will be considered a breach of the contract terms and cause for termination of the contract and disallowance of prior reimbursed costs.

- 1. During a Caltrans' review of the ICR audit work papers created by the CONSULTANT's independent CPA, Caltrans will work with the CPA and/or CONSULTANT toward a resolution of issues that arise during the review. Each party agrees to use its best efforts to resolve any audit disputes in a timely manner. If Caltrans identifies significant issues during the review and is unable to issue a cognizant approval letter, COUNTY will reimburse the CONSULTANT at a provisional ICR until a FAR compliant ICR (e.g. 48 CFR, part 31; GAGAS (Generally Accepted Auditing Standards); CAS (Cost Accounting Standards), if applicable; in accordance with procedures and guidelines of the American Association of State Highways and Transportation Officials Audit Guide; and other applicable procedures and guidelines} is received and approved by A&I. Provisional rates will be as follows:
 - a. If the proposed rate is less than 150% the provisional rate reimbursed will be 90% of the proposed rate.
 - b. If the proposed rate is between 150% and 200% the provisional rate will be 85% of the proposed rate.
 - c. If the proposed rate is greater than 200% the provisional rate will be 75% of the proposed rate.
- 2. If Caltrans is unable to issue a cognizant letter per Article IX.E.1. above, Caltrans may require CONSULTANT to submit a revised independent CPA-audited ICR and audit report within three (3) months of the effective date of the management letter. Caltrans will then have up to six (6) months to review the CONSULTANT's and/or the independent CPA's revisions.
- 3. If the CONSULTANT fails to comply with the provisions of this Article IX.E, or if Caltrans is still unable to issue a cognizant approval letter after the revised independent CPA-audited ICR is submitted, overhead cost reimbursement will be limited to the provisional ICR that was established upon initial rejection of the ICR and set forth in Article IX.E.1. above for all rendered services. In this event, this provisional ICR will become the actual and final ICR for reimbursement purposes under this contract.
- 4. CONSULTANT may submit to COUNTY final invoice only when all of the following items have occurred:
 (1) Caltrans approves or rejects the original or revised independent CPA-audited ICR; (2) all work under this contract has been completed to the satisfaction of LOCAL AGENCY; and, (3) Caltrans has issued its final ICR review letter. The CONSULTANT MUST SUBMIT ITS FINAL INVOICE TO COUNTY no later than 60 days after occurrence of the last of these items.

The provisional ICR will apply to this contract and all other contracts executed between COUNTY and the

ARTICLE X SUBCONTRACTING

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- A. Nothing contained in this contract or otherwise, shall create any contractual relation between COUNTY and any subconsultant(s), and no subcontract shall relieve CONSULTANT of its responsibilities and obligations hereunder. CONSULTANT agrees to be as fully responsible to COUNTY for the acts and omissions of its subconsultant(s) and of persons either directly or indirectly employed by any of them as it is for the acts and omissions of persons directly employed by CONSULTANT. CONSULTANT's obligation to pay its subconsultant(s) is an independent obligation from COUNTY'S obligation to make payments to the CONSULTANT.
- B. CONSULTANT shall perform the work contemplated with resources available within its own organization and no portion of the work pertinent to this contract shall be subcontracted without written authorization by COUNTY's Contract Administrator, except that, which is expressly identified in the Compensation Plan.
- C. CONSULTANT shall pay its subconsultants within ten (10) calendar days from receipt of each payment made to CONSULTANT by COUNTY.
- D. All subcontracts entered into as a result of this contract shall contain all the provisions stipulated in this contract to be applicable to subconsultants.
- E. Any substitution of subconsultant(s) must be approved in writing by COUNTY's Contract Administrator prior to the start of work by the subconsultant(s).

ARTICLE XI EQUIPMENT PURCHASE

- A. Prior authorization in writing, by COUNTY's Contract Administrator shall be required before CONSULTANT enters into any unbudgeted purchase order, or subcontract exceeding \$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 Compensation Plan and exceeding \$5,000 prior authorization by COUNTY's Contract Administrator; three competitive quotations must be submitted with the request, or the absence of bidding must be adequately justified.
- C. Any equipment purchased as a result of this contract is subject to the following: "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 \$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

contract, or if the contract 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

CFR, Part 200 requires a credit to Federal funds when participating equipment with a fair market value

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ARTICLE XII STATE PREVAILING WAGE RATES

greater than \$5,000 is credited to the project.

In the event that a portion of the work performed by CONSULTANT are by crafts affected by state labor laws, the following terms and conditions shall apply.

- A. CONSULTANT shall comply with the State of California's General Prevailing Wage Rate requirements in accordance with California Labor Code, Section 1770, and all Federal, State, and local laws and ordinances applicable to the work.
- B. Any subcontract entered into as a result of this contract, if for more than \$25,000 for public works construction or more than \$15,000 for the alteration, demolition, repair, or maintenance of public works, shall contain all of the provisions of this Article, unless the awarding agency has an approved labor compliance program by the Director of Industrial Relations.
- C. When prevailing wages apply to the services described in the scope of work, transportation and subsistence costs shall be reimbursed at the minimum rates set by the Department of Industrial Relations (DIR) as outlined in the applicable Prevailing Wage Determination. See http://www.dir.ca.gov.

When all of the work performed by CONSULTANT is performed by crafts not affected by state labor laws or are not contemplated for tise, the State of California's General Prevailing Wage Rates are not applicable to this contract.

Note: The F-deral "Payment of Predetermined Minimum Wage" applies only to federal-aid construction contracts.

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ARTICLE XIII CONFLICT OF INTEREST

- A. CONSULTANT shall disclose any financial, business, or other relationship with COUNTY that may have an impact upon the outcome of this contract, or any ensuing COUNTY construction project. CONSULTANT shall also list current clients who may have a financial interest in the outcome of this contract, or any ensuing COUNTY construction project, which will follow.
- B. CONSULTANT hereby certifies that it does not now have, nor shall it acquire any financial or business interest that would conflict with the performance of services under this contract.
- C. CONSULTANT hereby certifies that neither CONSULTANT, nor any firm affiliated with CONSULTANT will bid on any construction contract, or on any contract to provide construction inspection for any construction project resulting from this contract. An affiliated firm is one, which is subject to the control of the same persons through joint-ownership, or otherwise.
- D. Except for subconsultants whose services are limited to providing surveying or materials testing information, no subconsultant who has provided design services in connection with this contract shall be eligible to bid on any construction contract, or on any contract to provide construction inspection for any construction project resulting from this contract.

ARTICLE XIV REBATES, KICKBACKS OR OTHER UNLAWFUL CONSIDERATION

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

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

- A. CONSULTANT certifies to the best of his or her knowledge and belief that
 - 1. No state, federal or COUNTY appropriated funds have been paid, or will be paid by-or-on behalf of CONSULTANT to any person for influencing or attempting to influence an officer or employee of any state or federal agency; a Member of the State Legislature or United States Congress; an officer or employee of the Legislature or Congress; or any employee of a Member of the Legislature or Congress, in connection with the awarding of any state or federal contract; the making of any state or federal grant; the making of any state or federal loan; the entering into of any cooperative agreement, and the extension,

 continuation, renewal, amendment, or modification of any state or federal contract, grant, loan, or cooperative agreement.

- 2. If any funds other than federal appropriated funds have been paid, or will be paid to any person for influencing or attempting to influence an officer or employee of any federal agency; a Member of Congress; an officer or employee of Congress, or an employee of a Member of Congress; in connection with this federal contract, grant, loan, or cooperative agreement; CONSULTANT shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying", in accordance with its instructions.
- B. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. Section 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.
- C. CONSULTANT also agrees by signing this document that he or she shall require that the language of this certification be included in all lower-tier subcontracts, which exceed \$100,000 and that all such sub recipients shall certify and disclose accordingly.

ARTICLE XVI STATEMENT OF COMPLIANCE

- A. CONSULTANT's signature affixed herein, and dated, shall constitute a certification under penalty of perjury under the laws of the State of California that CONSULTANT has, unless exempt, complied with, the nondiscrimination program requirements of Government Code Section 12990 and Title 2, California Code of Regulations, Section 11102.
- B. During the performance of this Contract, CONSULTANT and its subconsultants shall not unlawfully discriminate, harass, or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious, national origin, ethnic group identification, age, physical disability (including HIV and AIDS), mental disability, medical condition (e.g., cancer), age (over 40), genetic information, marital status, or sexual orientation. CONSULTANT and subconsultants shall insure that the evaluation and treatment of their employees and applicants for employment are free from such discrimination and harassment. CONSULTANT and subconsultants shall comply with the provisions of the Fair Employment and Housing Act (Gov. Code §12990 (a-f) et seq.) and the applicable regulations promulgated thereunder (California Code of Regulations, Title 2, Section 7285 et seq.). The applicable regulations of the Fair Employment and Housing Commission implementing Government Code Section 12990 (a-f), set forth in

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Chapter 5 of Division 4 of Title 2 of the California Code of Regulations, are incorporated into this Contract by reference and made a part hereof as if set forth in full. 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.

- C. The CONSULTANT shall comply with regulations relative to Title VI (nondiscrimination in federally-assisted programs of the Department of Transportation – Title 49 Code of Federal Regulations, Part 21 - Effectuation of Title VI of the 1964 Civil Rights Act). Title VI provides that the recipients of federal assistance will implement and maintain a policy of nondiscrimination in which no person in the state of California 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.
- D. The CONSULTANT, with regard to the work performed by it during the Agreement shall act in accordance with Title VI. Specifically, the CONSULTANT shall not discriminate on the basis of race, color, national origin, religion, sex, age, or disability in the selection and retention of Subconsultants, including procurement of materials and leases of equipment. The CONSULTANT shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the U.S. DOT's Regulations, including employment practices when the Agreement covers a program whose goal is employment.

ARTICLE XVII DEBARMENT AND SUSPENSION CERTIFICATION

- A. CONSULTANT's signature affixed herein, shall constitute a certification under penalty of perjury under the laws of the State of California, that CONSULTANT has complied with Title 2 CFR, Part 180, "OMB Guidelines to Agencies on Government wide Debarment and Suspension (non procurement)", which certifies that he/she or any person associated therewith in the capacity of owner, partner, director, officer, or manager, is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any federal agency; has not been suspended, debarred, voluntarily excluded, or determined ineligible by any federal agency within the past three (3) years; does not have a proposed debarment pending; and 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. Any exceptions to this certification must be disclosed to COUNTY.
- B. Exceptions will not necessarily result in denial of recommendation for award, but will be considered in

 determining CONSULTANT responsibility. Disclosures must indicate to whom exceptions apply, initiating agency, and dates of action.

C. Exceptions to the System for Award Management (SAM) maintained by the General Services Administration are to be determined by the Federal Highway Administration.

ARTICLE XVIII FUNDING REQUIREMENTS

- A. It is mutually understood between the parties that this contract may have been written before ascertaining the availability of funds or appropriation of funds, for the mutual benefit of both parties, in order to avoid program and fiscal delays that would occur if the contract were executed after that determination was made.
- B. This contract is valid and enforceable only, if sufficient funds are made available to COUNTY for the purpose of this contract. In addition, this contract is subject to any additional restrictions, limitations, conditions, or any statute enacted by the Congress, State Legislature, or COUNTY governing board that may affect the provisions, terms, or funding of this contract in any manner.
- C. It is mutually agreed that if sufficient funds are not appropriated, this contract may be amended to reflect any reduction in funds.
- D. COUNTY has the option to void the contract under the 30-day termination clause pursuant to Article VI, or by mutual agreement to amend the contract to reflect any reduction of funds.

ARTICLE XIX CHANGE IN TERMS

- A. This contract may be amended or modified only by mutual written agreement of the parties.
- B. All modifications that do not fit within the definition of a minor modification shall be considered a major change and must be approved by amendment.
- C. Minor modifications are changes or additions to the services being provided as defined in Article IV Statement of Work but that are consistent with and needed to complete the contracted services and do not require an increase in the total amount payable by COUNTY as provided in Article V.H and does not reduce the budget allowed for any subconsultant classified in this Agreement as a DBE. Minor modifications are approved as follows:
 - Shifting of budget and/or work between tasks within a single Milestone or Phase is allowable without authorization by COUNTY.
 - Shifting of budget and/or work between different Milestones or Phases may be approved by execution of a Administrative Budget Modification by both CONSULTANT and COUNTY in accordance with the procedures

specified in the COUNTY Consulting Services Manual.

- D. CONSULTANT shall only commence work covered by an amendment after the amendment is executed and notification to proceed has been provided by COUNTY's Contract Administrator.
- E. There shall be no change in CONSULTANT's Project Manager or members of the project team, as listed as Key Personnel in the approved Scope of Services, which is a part of this contract without prior written approval by COUNTY's Contract Administrator.

ARTICLE XX 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 contract then compliance with the provisions of Article XX 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 XX is not required.

- A. This contract is subject to 49 CFR, Part 26 entitled "Participation by Disadvantaged Business Enterprises in Department of Transportation Financial Assistance Programs". Consultants who obtain DBE participation on this contract will assist Caltrans in meeting its federally mandated statewide overall DBE goal.
- B. The goal for DBE participation for this contract is [18] %. Participation by DBE consultant or subconsultants shall be in accordance with information contained in the Consultant Proposal DBE Commitment (Exhibit 10-O1), or in the Consultant Contract DBE Information (Exhibit 10-O2) attached hereto and incorporated as part of the Contract. If a DBE subconsultant is unable to perform, CONSULTANT must make a good faith effort to replace him/her with another DBE subconsultant, if the goal is not otherwise met.
- C. DBEs and other small businesses, as defined in 49 CFR, Part 26 are encouraged to participate in the performance of contracts financed in whole or in part with federal funds. CONSULTANT or subconsultant shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. CONSULTANT shall carry out applicable requirements of 49 CFR, Part 26 in the award and administration of US DOT-assisted agreements. Failure by CONSULTANT to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as COUNTY deems appropriate.
- D. Any subcontract entered into as a result of this contract shall contain all of the provisions of Article XX.
- E. A DBE firm may be terminated only with prior written approval from COUNTY and only for the reasons specified in 49 CFR 26.53(f). Prior to requesting COUNTY consent for the termination, CONSULTANT must

meet the procedural requirements specified in 49 CFR 26.53(f).

- F. A DBE performs a Commercially Useful Function (CUF) when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. To perform a CUF, the DBE must also be responsible with respect to materials and supplies used on the contract, for negotiating price, determining quality and quantity, ordering the material, and installing (where applicable) and paying for the material itself. To determine whether a DBE is performing a CUF, evaluate the amount of work subcontracted, industry practices, whether the amount the firm is to be paid under the, contract is commensurate with the work it is actually performing, and other relevant factors.
- G. A DBE does not perform a CUF if its role is limited to that of an extra participant in a transaction, contract, or project through which funds are passed in order to obtain the appearance of DBE participation. In determining whether a DBE is such an extra participant, examine similar transactions, particularly those in which DBEs do not participate.
- H. If a DBE does not perform or exercise responsibility for at least thirty percent (30%) of the total cost of its contract with its own work force, or the DBE subcontracts a greater portion of the work of the contract than would be expected on the basis of normal industry practice for the type of work involved, it will be presumed that it is not performing a CUF.
- I. CONSULTANT shall maintain records of materials purchased or supplied from all subcontracts entered into with certified DBEs. The records shall show the name and business address of each DBE or vendor and the total dollar amount actually paid each DBE or vendor, regardless of tier. The records shall show the date of payment and the total dollar figure paid to all firms. DBE prime consultants shall also show the date of work performed by their own forces along with the corresponding dollar value of the work.
- J. Upon completion of the Contract, a summary of these records shall be prepared and submitted on the form entitled, "Final Report-Utilization of Disadvantaged Business Enterprise (DBE), First-Tier Subconsultants" CEM-2402F [Exhibit 17-F, of the LAPM], certified correct by CONSULTANT or CONSULTANT's authorized representative and shall be furnished to the COUNTY's Contract Administrator with the final invoice. Failure to provide the summary of DBE payments with the final invoice will result in twenty-five percent (25%) of the dollar value of the invoice being withheld from payment until the form is submitted. The amount will be returned to CONSULTANT when a satisfactory "Final Report-Utilization of Disadvantaged Business Enterprises (DBE), First-Tier Subconsultants" is submitted to the COUNTY's Contract Administrator.

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K. If a DBE subconsultant is decertified during the life of the contract, the decertified subconsultant shall notify CONSULTANT in writing with the date of decertification. If a subconsultant becomes a certified DBE during the life of the Contract, the subconsultant shall notify CONSULTANT in writing with the date of certification. Any changes should be reported to COUNTY's Contract Administrator within 30 days.

ARTICLE XXI CONTINGENT FEE

CONSULTANT warrants, by execution of this contract that no person or selling agency has been employed, or retained, to solicit or secure this contract upon an agreement or understanding, for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees, or bona fide established commercial or selling agencies maintained by CONSULTANT for the purpose of securing business. For breach or violation of this warranty, COUNTY has the right to annul this contract without liability; pay only for the value of the work actually performed, or in its discretion to deduct from the contract price or consideration, or otherwise recover the full amount of such commission, percentage, brokerage, or contingent fee.

ARTICLE XXII DISPUTES

- A. In the event CONSULTANT considers any work demanded of him to be outside the requirements of the Agreement, or if he considers any order, instruction, or decision of COUNTY to be unfair, he shall promptly upon receipt of such order, instruction or decision, ask for a written confirmation of the same whereupon he shall proceed without delay to perform the work or to conform to the order, instruction, or decision; but unless CONSULTANT finds such order, instruction, or decision satisfactory, he shall within 20 days after receipt of same, file a written protest with COUNTY stating clearly and in detail his objections and reasons therefore. Except for such protests or objections as are made of record in the manner specified and within the time stated herein, and except for such instances where the basis of a protest could not reasonably have been foreseen by CONSULTANT within the time limit specified for protest, CONSULTANT hereby waives all grounds for protests or objections to the orders, instruction, or decisions of COUNTY and hereby agrees that, as to all matters not included in such protests, the orders, instructions and decisions of COUNTY will be limited to matters properly falling within COUNTY's authority.
- B. Any dispute, other than audit, concerning a question of fact arising under this contract that is not disposed of by agreement shall be decided by a committee consisting of COUNTY's Contract Administrator and Director of Transportation or designee, who may consider written or verbal information submitted by CONSULTANT.
- C. Not later than 30 days after completion of all deliverables necessary to complete the plans, specifications and

 estimate, CONSULTANT may request review by COUNTY Governing Board of unresolved claims or disputes, other than audit. The request for review will be submitted in writing.

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

ARTICLE XXIII INSPECTION OF WORK

CONSULTANT and any subconsultant shall permit COUNTY, the state, and the FHWA if federal participating funds are used in this contract; to review and inspect the project activities and files at all reasonable times during the performance period of this contract including review and inspection on a daily basis.

ARTICLE XXIV SAFETY

- A. CONSULTANT shall comply with OSHA regulations applicable to CONSULTANT regarding necessary safety equipment or procedures. CONSULTANT shall comply with safety instructions issued by COUNTY Safety Officer and other COUNTY representatives. CONSULTANT personnel shall wear hard hats and safety vests at all times while working on the construction project site.
- B. Pursuant to the authority contained in Section 591 of the Vehicle Code, COUNTY has determined that such areas are within the limits of the project and are open to public traffic. CONSULTANT shall comply with all of the requirements set forth in Divisions 11, 12, 13, 14, and 15 of the Vehicle Code. CONSULTANT shall take all reasonably necessary precautions for safe operation of its vehicles and the protection of the traveling public from injury and damage from such vehicles.
- C. Any subcontract entered into as a result of this contract, shall contain all of the provisions of this Article.
- D. In the event CONSULTANT performs trenching of five feet or deeper in the performance any service provided under this Agreement, CONSULTANT must have a Division of Occupational Safety and Health (CAL-OSHA) permit(s), as outlined in California Labor Code Sections 6500 and 6705, prior to the initiation of any practices, work, method, operation, or process related to the construction or excavation of trenches which are five feet or deeper.

ARTICLE XXV INDEMNIFICATION AND INSURANCE

A. Basic Indemnity

 To the fullest extent permitted by applicable law, CONSULTANT agrees to defend (through legal counsel reasonably acceptable to COUNTY), indemnify, and hold harmless the County of Riverside, its Agencies, Districts, Departments and Special Districts, Board of Supervisors, elected and appointed officials, and

each of their respective directors, members officers, employees, agents, volunteers and representatives ("Indemnitees") and each of them from any and all Losses that arise out of or relate to any act or omission constituting ordinary and not professional negligence (including, without limitation, negligent breach of contract), recklessness, or willful misconduct on the part of CONSULTANT or its subconsultants or their respective employees, agents, representatives, or independent contractors.

2. "Losses" shall mean any and all economic and non-economic losses, costs, liabilities, claims, damages, actions, judgements, settlements and expenses, including, without limitation, full and actual attorney's fees (including, without limitation, attorney's fees for trial and on appeal), expert and non-expert witness fees, arbitrator and arbitration fees and mediator and mediation fees.3. CONSULTANT further agrees to and shall indemnify and hold harmless the Indemnitees from all liability arising from suits, claims, demands, actions, or proceedings made by agents, employees or subcontractors of CONSULTANT for salary, wages, compensation, health benefits, insurance, retirement or any other benefit not explicitly set forth in this contract and arising out of work performed for COUNTY pursuant to this contract. The Indemnitees shall be entitled to the defense and indemnification provided for hereunder regardless of whether the Loss is in part caused or contributed to by the acts or omissions of an Indemnitee or any other person or entity; provided however, that nothing contained herein shall be construed as obligating CONSULTANT to indemnify and hold harmless any Indemnitee to the extent not required under the provisions of Paragraph B. below.

B. Indemnity for Design Professional Services

1. To the fullest extent permitted by Applicable Law, CONSULTANT agrees to defend (through legal counsel reasonably acceptable to COUNTY), indemnify and hold harmless the Indemnitees, and each of them, against any and all Losses that arise out of, pertain to, or relate to, any negligence, recklessness or willful misconduct constituting professional negligence on the part of CONSULTANT or its Subconsultants, or their respective employees, agents, representatives, or independent contractors. The Indemnitees shall be entitled to the defense, and indemnification provided for hereunder regardless of whether the Loss is, in part, caused or contributed to by the acts or omissions of an Indemnitee or any other person or entity; provided, however, that nothing contained herein shall be construed as obligating CONSULTANT to indemnify and hold harmless any Indemnitee to the extent not required under the provisions of this section. CONSULTANT shall defend and pay, all costs and fees, including but not limited to attorney fees,

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cost of investigation, and defense, in any loss, suits, claims, demands, actions, or proceedings to the extent and in proportion to the percentage, such costs and fees arise out of, pertain to, or relate to the negligence, recklessness or willful misconduct of CONSULTANT arising out of or from the performance of professional design services under this Agreement. The duty to defend applies to any alleged or actual negligence, recklessness, willful misconduct of CONSULTANT. The cost for defense shall apply whether or not CONSULTANT is a party to the lawsuit and shall apply whether or not CONSULTANT is directly liable to the plaintiffs in the lawsuit. The duty to defend applies even if Indemnitees are alleged or found to be actively negligent, but only in proportion to the percentage of fault or negligence of CONSULTANT.

- 2. Without affecting the rights of COUNTY under any other provision of this Agreement, CONSULTANT shall not be required to indemnify or hold harmless or provide defense or defense costs to an Indemnitee for a Loss due to that Indemnitee's negligence, recklessness or willful misconduct; provided, however, that such negligence, recklessness or willful misconduct has been determined by agreement of CONSULTANT and Indemnitee or has been adjudged by the findings of a court of competent jurisdiction.
- 3. CONSULTANT agrees to obtain or cause to be obtained executed defense and indemnity agreements with provisions identical to those set forth in this section from each and every Subconsultant, of every Tier.
- 4. CONSULTANT's indemnification obligations under this Agreement shall not be limited by the amount or type of damages, compensation or benefits payable under any policy of insurance, workers' compensation acts, disability benefit acts or other employee benefit acts.
- 5. The Indemnitees shall be entitled to recover their attorneys' fees, costs and expert and consultant costs in pursuing or enforcing their right to defense and/or indemnification under this Agreement.

C. INSURANCE

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

1. Workers' Compensation:

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

2. Commercial General Liability:

Commercial General Liability insurance coverage, including but not limited to, premises liability, unmodified contractual liability, products and completed operations liability, personal and advertising injury, and cross liability coverage, covering claims which may arise from or out of CONSULTANT'S performance of its obligations hereunder. Policy shall name the COUNTY as Additional Insured. Policy's limit of liability shall not be less than \$1,000,000 per occurrence combined single limit. If such insurance contains a general aggregate limit, it shall apply separately to this agreement or be no less than two (2) times the occurrence limit.

3. Vehicle Liability:

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

4. Professional Liability

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

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5. General Insurance Provisions - All lines:

continue as long as the law allows.

- Any insurance carrier providing insurance coverage hereunder shall be admitted to the State of California and have an A M BEST rating of not less than A: VIII (A:8) unless such requirements are waived, in writing, by the County Risk Manager. If the County's Risk Manager waives a requirement for a particular insurer such waiver is only valid for that specific insurer and only for one policy term.
- b. The CONSULTANT must declare its insurance self-insured retention for each coverage required herein. If any such self-insured retention exceed \$500,000 per occurrence each such retention shall have the prior written consent of the County Risk Manager before the commencement of operations under this Agreement. Upon notification of self-insured retention unacceptable to the COUNTY, and at the election of the Country's Risk Manager, CONSULTANT'S carriers shall either; 1) reduce or eliminate such self-insured retention as respects this Agreement with the COUNTY, or 2) procure a bond which guarantees payment of losses and related investigations, claims administration, and defense costs and expenses.
 - CONSULTANT shall cause CONSULTANT'S insurance carrier(s) to furnish the County of Riverside with either 1) a properly executed original Certificate(s) of Insurance and certified original copies of Endorsements effecting coverage as required herein, and 2) if requested to do so orally or in writing by the County Risk Manager, provide original Certified copies of policies including all Endorsements and all attachments thereto, showing such insurance is in full force and effect. Further, said Certificate(s) and policies of insurance shall contain the covenant of the insurance carrier(s) that thirty (30) days written notice shall be given to the County of Riverside prior to any material modification, cancellation, expiration or reduction in coverage of such insurance. In the event of a material modification, cancellation, expiration, or reduction in coverage, this Agreement shall terminate forthwith, unless the County of Riverside receives, prior to such effective date, another properly executed original Certificate of Insurance and original copies of endorsements or certified original policies, including all endorsements and attachments thereto evidencing coverage's set forth herein and the insurance required herein is in full force and effect. CONSULTANT shall not commence operations until the COUNTY has been furnished original Certificate (s) of Insurance and certified original copies of endorsements and if requested, certified original policies of insurance including all

endorsements and any and all other attachments as required in this Section. An individual authorized by the insurance carrier to do so on its behalf shall sign the original endorsements for each policy and the Certificate of Insurance.

- d. It is understood and agreed to by the parties hereto that the CONSULTANT'S insurance shall be construed as primary insurance, and the COUNTY'S insurance and/or deductibles and/or self-insured retention's or self-insured programs shall not be construed as contributory.
- e. If, during the term of this Agreement or any extension thereof, there is a material change in the scope of services; or, there is a material change in the equipment to be used in the performance of the scope of work; or, the term of this Agreement, including any extensions thereof, exceeds five (5) years; the COUNTY reserves the right to adjust the types of insurance and the monetary limits of liability required under this Agreement, if in the County Risk Manager's reasonable judgment, the amount or type of insurance carried by the CONSULTANT has become inadequate.
- f. CONSULTANT shall pass down the insurance obligations contained herein to all tiers of subconsultants working under this Agreement.
- g. The insurance requirements contained in this Agreement may be met with a program(s) of self-insurance acceptable to the COUNTY.
- h. CONSULTANT agrees to notify COUNTY of any claim by a third party or any incident or event that may give rise to a claim arising from the performance of this Agreement.

ARTICLE XXVI OWNERSHIP OF DATA

- A. Ownership and title to all reports, documents, plans, specifications, and estimates produced as part of this contract will automatically be vested in COUNTY; and no further agreement will be necessary to transfer ownership to COUNTY. CONSULTANT shall furnish COUNTY all necessary copies of data needed to complete the review and approval process.
- B. It is understood and agreed that all calculations, drawings and specifications, whether in hard copy or machine-readable form, are intended for the-time use in the construction of the project for which this contract has been entered into. CONSULTANT acknowledges that the plans, drawings and/or other work products may be used by COUNTY for the PROJECT regardless of any disputes that may develop between CONSULTANT and COUNTY. All plans, drawings, or other work product shall be deemed the sole and exclusive property of COUNTY to be used as desired by COUNTY, and ownership thereof is irrevocably

vested in COUNTY whether the PROJECT is implemented or not.

- C. CONSULTANT is not liable for claims, liabilities, or losses arising out of, or connected with the modification, or misuse by COUNTY of the machine-readable information and data provided by CONSULTANT under this contract; further, CONSULTANT is not liable for claims, liabilities, or losses arising out of, or connected with any use by COUNTY of the project documentation on other projects, for additions to this project, or for the completion of this project by others, except only such use as may be authorized in writing by CONSULTANT.
- D. Applicable patent rights provisions regarding rights to inventions shall be included in the contracts as appropriate (48 CFR 27, Subpart 27.3 Patent Rights under Government Contracts for federal-aid contracts).
- E. COUNTY may permit copyrighting reports or other agreement products. If copyrights are permitted; the agreement shall provide that the FHWA and COUNTY shall have the royalty-free nonexclusive and irrevocable right to reproduce, publish, or otherwise use; and to authorize others to use, the work for government purposes.

ARTICLE XXVII CLAIMS FILED BY COUNTY'S CONSTRUCTION CONTRACTOR

- A. If claims are filed by COUNTY's construction contractor relating to work performed by CONSULTANT's personnel, and additional information or assistance from CONSULTANT's personnel is required in order to evaluate or defend against such claims; CONSULTANT agrees to make its personnel available for consultation with COUNTY'S construction contract administration and legal staff and for testimony, if necessary, at depositions and at trial or arbitration proceedings.
- B. CONSULTANT's personnel that COUNTY considers essential to assist in defending against construction contractor claims will be made available on reasonable notice from COUNTY. Consultation or testimony will be reimbursed at the same rates, including travel costs that are being paid for CONSULTANT's personnel services under this contract.
- C. Services of CONSULTANT's personnel in connection with COUNTY's construction contractor claims will be performed pursuant to a written contract amendment, if necessary, extending the termination date of this contract in order to resolve the construction claims.

ARTICLE XXVIII CONFIDENTIALITY OF DATA

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

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- B. Permission to disclose information on one occasion, or public hearing held by COUNTY relating to the contract, shall not authorize CONSULTANT to further disclose such information, or disseminate the same on any other occasion.
- C. CONSULTANT shall not comment publicly to the press or any other media regarding the contract or COUNTY's actions on the same, except to COUNTY's staff, CONSULTANT's own personnel involved in the performance of this contract, at public hearings or in response to questions from a Legislative committee.
- D. CONSULTANT shall not issue any news release or public relations item of any nature, whatsoever, regarding work performed or to be performed under this contract without prior review of the contents thereof by COUNTY, and receipt of COUNTY'S written permission.
- E. Any subcontract entered into as a result of this contract shall contain all of the provisions of this Article.
- F. All information related to the construction estimate is confidential, and shall not be disclosed by CONSULTANT to any entity other than COUNTY.

ARTICLE XXIX NATIONAL LABOR RELATIONS BOARD CERTIFICATION

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

ARTICLE XXX LEGAL COMPLIANCE

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

ARTICLE XXXI EVALUATION OF CONSULTANT

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

ARTICLE XXXII RETENTION OF FUNDS

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

ARTICLE XXXIII NOTIFICATION

All notices hereunder and communications regarding interpretation of the terms of this contract and changes thereto, shall be effected by the mailing thereof by registered or certified mail, return receipt requested, postage prepaid, and addressed to the CONSULTANT's Project Manager and COUNTY's Contract Administrator at the respective addresses provided in Article I.B.

ARTICLE XXXIV. CONTRACT

The two parties to this contract, who are the before named CONSULTANT and the before named COUNTY, hereby agree that this contract constitutes the entire agreement which is made and concluded in duplicate between the two parties. Both of these parties for and in consideration of the payments to be made, conditions mentioned, and work to be performed; each agree to diligently perform in accordance with the terms and conditions of this contract as evidenced by the signatures below.

CONSULTANT Approvals

CONSULTANT:

John A. Klemunes, Jr

PRINTED NAME

President

TITLE

CONSULTANT:

Cathy Chan

TITLE

PRINTED NAME

2

ATTACHMENT A • SCOPE OF SERVICES

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ARTICLE AI • INTRODUCTION

A. DESCRIPTION

The County of Riverside (COUNTY) in cooperation with the State of California Department of Transportation (CALTRANS) and City of Coachella (COACHELLA) has determined that there is a significant need for bridge improvements on the existing Airport Boulevard Bridge over Whitewater River. The existing Airport Boulevard Bridge is approximately 366 feet long and 32 feet wide. The bridge was originally built in 1951, and it was partially reconstructed in 1970 when the bridge was damaged in the 1969 flood. This bridge also has scour issues that have exposed portion of existing steel-encased piles. The bents were retrofitted by placing in-fill walls between the bent columns and pile cap with additional steel piles driven at the two ends of the in-filled wall bents.

The bridge is listed in the Federal Eligible Bridge List (EBL) with a Sufficiency Rating (SR) of 60 according to the Bridge Inspection Report prepared by Caltrans Structure Maintenance and Investigations (SM&I). Since the bridge has a SR lower than 80, the bridge is eligible for major rehabilitation in accordance with the Highway Bridge Program (HBP) guidelines.

Additionally, the FEMA Flood Plain Report indicated significant inundation for the Airport Boulevard Bridge in a Q100 event. Coachella Valley Water District has a plan to lower the riverbed and replace Whitewater River with a concrete lined channel at the Airport Boulevard Bridge. This PROJECT proposes to replace the existing 2 lane Airport Boulevard Bridge (Br. No. 56C-0020) over Whitewater River in Riverside County with a new 4 lane bridge and reconstruct the connecting approach roadways.

The CONSULTANT shall prepare Alternative Concepts, Environmental Clearance and Documentation, and Preliminary Engineering (35% Plans) necessary to clear the project and secure the permits for construction of the new bridge. The CONSULTANT will prepare a technical report documenting all preliminary engineering work performed supporting the environmental documentation. This PROJECT is proposed to be primarily funded by HBP Funds. Therefore, it must conform to the process and the procedures of the Caltrans Office of Local Programs.

The proposed bridge improvements are consistent with the 2012-2035 Regional Transportation Plan (RTP) published by the Southern California Association of Governments (SCAG). Widening of Airport Boulevard from 2 to 4 traffic lanes, including the bridge over the Whitewater River, has been listed in the SCAG's 2012-2035 RTP.

B. LOCATION

The PROJECT site is located in the COUNTY and the City of Coachella (COACHELLA), approximately 1,300 feet west of State Route 86 (SR-86) in Riverside County, California.



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:

- Federal Highway Administration (FHWA)
- Caltrans
- County of Riverside Departments
- Utility Companies
- U.S. Army Corps of Engineers (USACE)
- U.S. Fish and Wildlife Service (USFWS)
- California Department of Fish and Wildlife (CDFV)
- Regional Water Quality Control Board (RWQCo)
- Riverside County Flood Control & Water Curr ervation District (RCFC & WCD)
- Coachella Valley Water District (CVWD)
- Southern California Air Quality Management District (SCAQMD)

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City of Coachella

Coachella Valley Conservation Commission

Coachella Valley Association of Governments

D. PHASES

The services performed by CONSULTANT will be accomplished in 4 Phases:

- Phase I Project Approval/Environmental Document
- Phase II Plans, Specifications & Estimates
- Phase III Construction Bid Support
- Phase IV Construction Support

Phase I shall commence upon written notice to proceed by the COUNTY. The subsequent phases shall not be commenced until authorized in writing by the COUNTY.

E. STANDARDS

The Plans, Specifications and Estimates shall be prepared in accordance with current State Department of Transportation (CALTRANS) regulations, policies, procedures, manuals and standards, including compliance with Federal Highway Administration (FHWA) requirements and/or COUNTY Road Standards as appropriate, Improvements of local roads may be prepared in accordance with COUNTY standards in lieu of CALTRANS standards as directed by the COUNTY PROJECT MANAGER. CONSULTANT will prepare fact sheets for COUNTY approval, documenting the exceptions to mandatory and advisory design standards. All documents shall be prepared using English Standard Units and dimensions.

1. Environmental

Environmental documents and services shall be performed in accordance with CALTRANS Standard Environmental Reference (SER) including requirements of the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA) if the project has a Federal nexus.

2. Survey

All preliminary surveys and aerial mapping, if required, shall be performed by COUNTY.

3. Design

Roadway design shall be in accordance with the current CALTRANS Highway Design Manual and its revisions and/or COUNTY Road Standards as appropriate. Traffic design shall be in accordance with the Manual of Uniform Traffic Control Devices (MUTCD) and the California Supplement. Basic design shall be

in accordance with the approved Technical Report and final Environmental Document including any supplements and/or updates. Microstation (compatible with current CALTRANS version) software will be used as the design software.

4. Geographical Information System (GIS)

- a. "GIS Information" shall include GIS digital files (including the information or data contained therein) and any other information, data, or documentation from COUNTY GIS (regardless of medium or format) that is provided pursuant to this Agreement.
- b. CONSULTANT acknowledges that the unauthorized use, transfer, assignment, sublicensing, or disclosure of the GIS information, documentation, or copies thereof will substantially diminish their value to COUNTY. CONSULTANT acknowledges and agrees that COUNTY GIS information is a valuable proprietary product, embodying substantial creative efforts, trade secrets, and confidential information and ideas. COUNTY GIS information is and shall remain the sole property of COUNTY; and there is no intention of COUNTY to transfer ownership of COUNTY GIS information.
- c. COUNTY GIS information is made available to CONSULTANT solely for use in the normal course of CONSULTANT's business to produce reports, analysis, maps and other deliverables only for this PROJECT and as described within the Scope of Services.
- d. CONSULTANT agrees to indemnify and hold harmless COUNTY, its officers, employees and agents from any and all liabilities, claims, actions, losses or damages relating to or arising from CONSULTANT's use of COUNTY GIS information.
- e. GIS information cannot be used for all purposes; and GIS information may not be complete for all purposes. Additional investigation or research by CONSULTANT into other sources will be required. GIS information is intended only as an information base and is not intended to replace any legal records. COUNTY has used and will continue to use its best efforts to correctly input into COUNTY GIS the information contained in various legal and other records; but COUNTY accepts no responsibility for any conflict with actual legal records or for information not transferred from legal records to COUNTY GIS. COUNTY has attempted to update GIS information as often as is practically feasible. However, CONSULTANT should be aware that GIS information may not be current and changes or additions to the information contained in COUNTY GIS may not yet be reflected in COUNTY GIS.

- f. COUNTY accepts no responsibility for the use of GIS information; and COUNTY provides no warranty for the use of COUNTY GIS or COUNTY GIS information by CONSULTANT. THE WARRANTIES SPECIFICALLY SET FORTH IN THIS AGREEMENT ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE; AND SUCH OTHER WARRANTIES ARE HEREBY EXCLUDED.
- g. Final plans, drawings or PROJECT work products will be provided in an electronic format suitable for inclusion within the COUNTY GIS or CADD Systems by CONSULTANT and will contain the appropriate meta data and will be geographically registered using the California State Plane Coordinate System NAD 83.

5. Project Files

Project files shall be indexed in accordance with CALTRANS' Project Development Uniform File System.

F. QUALITY CONTROL

- 1. CONSULTANT shall implement and maintain the following quality control procedures during the preparation of the plans and documents relating to PROJECT. CONSULTANT shall have a quality control plan in effect during the entire time services are being performed under this Agreement. The plan shall establish a process whereby calculations are independently checked, plans checked, corrected and backchecked, and all job-related correspondence and memoranda routed and received by affected persons and then bound in appropriate job files. Where several drawings show different work in the same area, means shall be provided to avoid conflicts and misalignment in both new and existing improvements. Evidence that the quality control plan is functional may be requested by the COUNTY Contract Administrator. All plans, calculations documents and other items submitted to the COUNTY Contract Administrator for review shall be marked clearly as being fully checked and that the preparation of the material followed the quality control plan established for the work.
- 2. CONSULTANT has total responsibility for the accuracy and completeness of all data, reports, plans, specifications and estimates prepared for this PROJECT and shall check all such material accordingly. COUNTY will review all work product deliverables. The responsibility for accuracy and completeness of such items remains solely that of CONSULTANT. Neither COUNTY'S review or approval shall give rise to any liability or responsibility on the part of COUNTY, or waive any of COUNTY'S rights, or relieve CONSULTANT of its professional responsibilities or obligations under this Agreement.

3. The plans, designs, estimates, calculations, reports and other documents furnished in accordance with the Scope of Services shall meet the criteria for acceptance and be a product of neat appearance, well organized, technically and grammatically correct, checked and having the preparer and checker identified. The minimum standard of appearance, organization and contents shall be of similar types produced by COUNTY and AGENCIES. If any work product submitted is not complete and ready for use by COUNTY, it shall be marked "Draft" or similar designation to indicate it is not ready for use by COUNTY. COUNTY expects that all work product not so designated is ready for and can be used on PROJECT.

4. The page identifying preparers of engineering reports, the title sheet for specifications 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(s) responsible for their preparation.

G. VALUE ENGINEERING

1. Elements of PROJECT may be considered for Value Engineering Studies. To this end, the COUNTY Contract Administrator may direct the CONSULTANT to examine the various elements of a design segment and submit an informal written statement or memorandum addressing those elements where it appears significant savings and other advantages can be realized. The statement shall be sufficiently informative to enable COUNTY to determine whether to direct a detailed Value Engineering Study or possibly direct immediate design changes where the value of the change is apparent without the need of detailed study and analysis.

 CONSULTANT or its subcontractors shall not incorporate in the design materials or equipment of single or sole source origin without written approval of COUNTY. Proprietary names of material or equipment shall not be used in the plans and specifications.

H. 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 PF.C JECT MANAGER has been secured. The key personnel for performance of this PROJECT are:

Assignment Key	Personnel
Principal in Charge	Richard Liptak, PE
Project Manager	Juann Ramos, PE

Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)

Lead Roadway Engineer Kristopher Kofoed, PE

Lead Structures Engineer Martin Maechler, PE

Lead Environmental Planner Namat Hosseinion

QA/QC Engineer John Klemunes, PE

The Project Manager shall be a registered civil engineer in the State of California. All documents and deliverables submitted that represent engineering work shall be signed and stamped (including registration Number) by an engineer/land surveyor with an appropriate license/registration for the work performed.

I. COUNTY RESPONSIBILITIES

The following includes tasks to be completed by the COUNTY:

- COUNTY will provide standards, existing plans, and manuals when requested by CONSULTANT and available to COUNTY personnel.
- COUNTY will provide survey and land acquisition services generally as described below:
 - Provide survey controls.
 - Verify that County survey control points are still in place and undisturbed.
 - Provide survey records research, including grant deeds and right-of-way documents in support
 of right-of-way base mapping prepared by COUNTY surveyor.
 - Prepare existing right-of-way and parcel mapping.
 - Coordinate permits for right-of-entry with property owners.
 - Obtain and review title reports, identify easements and encumbrances.
 - Prepare appraisals for temporary and permanent right-of-way and perform appraisal review.
 - Perform right-of-way negotiations and acquisitions.
 - Certify new acquired right-of-way.

J. CONTRACT DELIVERABLES

The following list identifies the deliverables to the COUNTY by CONSULTANT. All deliverables will be provided in hard copy format and in electronic format (pdf) as identified in this scope of work unless otherwise noted.

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ARTICLE AII • SERVICES TO BE PROVIDED

PHASE I - PRELIMINARY ENGINEERING AND ENVIRONMENTAL CLEARANCE

T1 PROJECT MANAGEMENT

Project Management shall be conducted to ensure a smooth flow of information between Project Development Team (PDT) members. A project schedule shall be developed and periodically updated. A comprehensive Quality Assurance/Quality Control (QA/QC) plan shall be implemented. Monthly PDT Meetings shall be held.

1.1 PROJECT COORDINATION AND PROJECT TEAM MEETINGS

A Project Development Team (PDT), for the Project Approval and Environmental Document Phase, including representatives from the COUNTY and the City of Coachella, Caltrans Local Assistance, subconsultants, and other relevant agencies will be established within fifteen days after Notice to Proceed (NTP). PDT meetings with the COUNTY PROJECT MANAGER and other representatives from affected agencies will be held at least once a month. CONSULTANT shall prepare minutes for each meeting and distribute the minutes to all attendees and other interested parties.

1.2 MONTHLY PROGRESS REPORTS

CONSULTANT shall prepare progress reports to record the progress of the project and as supporting data for invoices presented monthly to the COUNTY. The Progress Report shall include accomplished tasks for the month, anticipated progress for the next month, pending issues and schedule completion target dates. CONSULTANT shall mail progress reports with the monthly invoices and deliver the Progress Reports to the COUNTY at the monthly PDT meetings.

1.3 PROGRESS SCHEDULE

CONSULTANT shall, within 2 weeks of Notice to Proceed (NTP), provide a detailed project baseline schedule, indicating milestones, major activities and deliverables, to the COUNTY for review and comments. CONSULTANT shall update the schedule on a monthly basis, to coincide with the PDT meetings or as required.

1.4 QUALITY CONTROL

CONSULTANT shall have a quality control plan in effect during the entire course of the project. CONSULTANT shall develop a plan establishing a process to ensure design calculations are independently checked. Exhibits and plans shall also be checked, corrected and back-checked for accuracy and completeness. CONSULTANT shall review environmental and engineering Sub-consultant report submittals to ensure that appropriate

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background information, study methodology, interpretation of data, format and content are completed in accordance with current standards.

1.5 COST ACCOUNTING

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

Deliverable(s): Prepare meeting notices, agendas and minutes, schedules, monthly progress reports and invoices, and maintain project files.

T2 RESEARCH AND DATA GATHERING

2.1 COLLECT AND REVIEW EXISTING INFORMATION

Existing topographic mapping, photos, bridge reports, maintenance reports, right-of-way maps, as-built plans, record maps and surveys, study reports, assessor maps, contract documents, and any other data shall be obtained and reviewed.

2.2 CONDUCT FIELD REVIEW

A site visit, by all members of the team (including CALTRANS Local Assistance, CALTRANS Environmental, FHWA, and the COUNTY), shall be conducted to obtain information on current conditions, constraints, and potential solutions. CONSULTANT will complete the Field Review paperwork (CALTRANS LAPM Exhibit 7-B) and coordinate with CALTRANS to obtain approval.

T3 PRELIMINARY ENGINEERING

3.1 TRAFFIC STUDIES

Performing the Traffic Studies as early in the project schedule as possible will be one of the highest priorities together with the preparation of the Final Seismic Retrofit Strategy Report. This is in an attempt to verify and confirm the scope of the Airport Boulevard Bridge replacement project as described in the funding application document for the HBP funds.

Existing traffic counts were collected in 2020 prior to COVID and will be used in this assessment. The existing volumes include weekday AM and PM peak hour volumes at the following locations.

- 1. Airport Boulevard/Orange Street
- 2. Airport Boulevard/SR-86 Southbound Ramps/Desert Cactus Drive
- Airport Boulevard/SR-86 Northbound Ramps

CONSULTANT will review and update the forecasts we prepared earlier this year but will refine for both Opening Year and Design Year conditions. The RIVTAM model will be used to estimate these forecasts. The Opening Year forecasts will be developed using interpolation between existing and Design Year volumes. At this point, the project is anticipated to be a replacement of the existing bridge; as such, CONSULTANT anticipates doing one set of operations assessments as the geometrics between the No Build and Build scenarios should be consistent.

The AM and PM peak hour volumes will be developed at the three study intersections during both Opening Year and Design Year conditions.

CONSULTANT will conduct a capacity assessment using the Synchro analysis software to ensure the Opening Year and Design Year forecasts can be accommodated by the proposed design. CONSULTANT will conduct the AM and PM peak hour LOS analysis at the three study intersections during the following scenarios:

- Existing conditions
- Opening Year conditions
- Design Year conditions

To comply with the SB 743 requirement, CONSULTANT will prepare a brief memo documenting that this is not growth inducing and that it is specifically a screened improvement in both the OPR Technical Advisory and Caltrans TAF/TAC CEQA guidance documents.

CONSULTANT will prepare a Traffic Analysis Technical Memorandum to summarize the data collection, traffic forecasting, LOS assessment, and VMT assessment results and findings. We will respond to one round of comments on the Draft Memorandum and prepare the Final Memorandum.

Deliverable(s): Traffic Analysis Technical Memorandum (Draft and Final)

3.2 PRELIMINARY UTILITY RESEARCH AND UTILITY BASE MAP

CONSULTANT shall perform a utility search on Airport Boulevard for available as-built plans for the project area. CONSULTANT shall research records for both public and franchise utilities and shall plot the location of all existing facilities. CONSULTANT shall include preparation of a database of utility records indicating the type of utility, owner, drawing number, and other vital information. The identified utility companies shall be sent a letter on County's letterhead requesting information regarding existing and proposed utilities. Using the information obtained, CONSULTANT shall prepare a utility base map which shall be the basis of the Utility Information Sheet. CONSULTANT shall prepare a Utility Information Sheet. The names of all utilities and points

of contact shall be developed. A description of the location, existing facility and potential conflicts with the project shall be prepared.

If necessary, CONSULTANT will coordinate with COUNTY and other agencies to arrange for potholing to confirm existing underground facilities. Ten (10) potholes are assumed and included in this scope of work and the fee proposal. 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. CONSULTANT will prepare potholing exhibits 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 all appropriate jurisdictions prior to the start of work.

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.

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 of the potholes.

Deliverable(s): Database of Utility Records, Utility Base Map with Potholing Data, Utility Information Sheet

3.3 PERMITS

CONSULTANT will coordinate with the COUNTY and all required agencies to obtain all required encroachment permits and rights-of-entry needed for Phase I activities. As directed by COUNTY, CONSULTANT shall prepare and submit all permit applications. All permit filing fees are to be paid by COUNTY.

3.4 SURVEYING AND RIGHT OF WAY MAPPING (BY COUNTY)

Surveying, Topographic and Right-of-Way mapping will be provided by COUNTY forces. CONSULTANT is available to provide any surveying and topographic services the COUNTY requires. The COUNTY surveyor will also provide the waterway surveyed cross-sections.

3.5 PRELIMINARY GEOTECHNICAL

A preliminary geotechnical report will be prepared for use in the preliminary plans and environmental documents. Initially, a geologic reconnaissance of the alignment will be made. Available existing subsurface information for the project area will be collected, including as-built Logs of Test Borings (LOTBs), geologic maps published by the California Division of Mines and Geology, geologic maps published by the United States Geological Survey and ground water well information. Available aerial photographs will be reviewed. Geologic and groundwater information on file with Riverside County and the University of California at Riverside also will be researched. Based on the review of available data, and the geologic reconnaissance, CONSULTANT will provide seismic and geologic information and groundwater data for seismic retrofit analysis, preliminary plans and environmental documents. CONSULTANT will identify any seismic and geologic hazards that will have a significant impact on the design and construction of the project. A report will be prepared documenting the results of the review.

If required, CONSULTANT will evaluate the axial and lateral capacity of the existing foundations for use in seismic retrofit analysis. All of the above work will be included in the Preliminary Geotechnical Report prepared by the CONSULTANT.

Deliverable(s): Preliminary Geotechnical Report

3.6 RIGHT OF WAY REQUIREMENT MAP

Based on the Right-of-Way Mapping provided by the COUNTY and the project improvements established during the Preliminary Geometric Plan task, CONSULTANT shall prepare a 30-Scale right-of-way requirements map showing the right-of-way lines, parcels, and anticipated limits of the additional permanent street easement and temporary construction easements necessary for the construction of the project improvements. The right-of-way requirements map shall include a table identifying the amount of area needed as a TCE or a street easement for each affected parcel.

Deliverable(s): Right-of-Way Requirements Maps

3.7 PRELIMINARY ROADWAY AND GEOMETRIC PLANS

CONSULTANT shall develop the horizontal and vertical layout of the replacement bridge structure based on roadway realignment on Airport Boulevard. The Geometric design shall delineate the original ground, traveled way, shoulders, cut/fill slopes, known utilities, and existing/proposed right-of-way. The preliminary geometric plans will contain a proposed roadway alignment, roadway plan and profile on a 1" = 20' scale and will contain

 a title sheet, typical sections and details. The plans will also show limits of construction, project dimensions, and general identification of work as well as the centerline and edge of pavement design.

The vertical alignment shall be based on the findings of the hydraulic profiles from CVWD's proposed channel improvement design. Bridge girders and soffits will clear the 100-year flood or the design flood water surface with a required freeboard of "4-feet". The existing profile grade shall be maintained to the maximum extent possible. The design speed of the realignment design shall not be less than the existing condition.

Deliverable(s): Preliminary Geometric Plans

3.8 STAGE CONSTRUCTION DESIGN

CONSULTANT shall complete conceptual stage construction designs for the alternatives considered. The stage construction design shall assist in determining constructability, staging sequence, potential detours, construction schedule duration, costs, and temporary construction impacts associated with the project.

Deliverable(s): Preliminary Stage Construction Plans

3.9 STRUCTURE ADVANCE PLANNING STUDY

CONSULTANT will prepare Advance Planning Study for the replacement bridge on Airport Boulevard. The bridge planning study shall be prepared per CALTRANS guidelines with a goal to select a preferred structure type that can be used as the basis to support environmental, hydraulic and geotechnical studies. CONSULTANT shall prepare the Advance Planning Study (APS) plan sheets using the standard COUNTY Bridge General Plan sheet format. Where applicable, alternative span configurations and alternative structure types will be evaluated for costs, construction duration and impact to Whitewater River. Included in this scope is development of up to six alternative advance planning study plans with approximate cost estimates to investigate alternative span configurations, structure types and staging that may be needed to help the County identify the best alternative and to satisfy Caltrans for funding approval.

It is anticipated the replacement structure on Airport Boulevard will be built in two stages. Two lanes of traffic will be maintained through the construction. A conceptual staging plan and typical sections will be included in considerations involved in developing alternatives. Consultant shall prepare a Preliminary Cost Estimate for the bridge types based on approximate quantities and historical construction costs for similar projects.

Deliverable(s): Structure Advance Planning Study Report

3.10 PRELIMINARY BRIDGE DESIGN HYDRAULIC STUDY (BDHS) REPORT

Coachella Valley Water District has a proposed program to improve the Whitewater River between Airport Boulevard and Highway 111. Currently it is anticipated that CVWD may start the construction of the channel improvements in FY 2020-2021. Based on a preliminary design of the channel improvements provided by CVWD, the Whitewater River is proposed to be a concrete paved trapezoidal channel. CONSULTANT will work closely with CVWD and its consultants to determine the physical characteristics and timing of the planned channel improvements, as well as the criteria by which the bridge improvements will be evaluated.

To support the proposed Airport Boulevard Bridge improvements, CONSULTANT will conduct a hydraulic analysis for the following conditions:

- Existing: An analysis of the existing condition will be performed to support the preparation of the Plan
 of Action (see Task 3.11). This analysis will consider storm frequencies ranging from the 10-year to the
 100-year flows.
- Interim: An analysis of the interim condition will evaluate the hydraulic impacts of the bridge replacement with the existing earthen channel in place using the 50- and 100-year flow frequencies.
 This condition will exist in the event that the CVWD project occurs after the Airport Boulevard Bridge is replaced.
- Ultimate: The ultimate condition will reflect the hydraulic impacts of the bridge replacement with the
 CVWD channel improvements in place and will utilize the 50- and 100-year flow frequencies.

To perform the aforementioned analyses, CONSULTANT shall obtain the HEC-RAS model(s) for the Whitewater River from CVWD. The bridge/channel geometry and Manning's n values will be updated to reflect each of the four hydraulic conditions described above. Flow rates for storm frequencies not contained in the model will be obtained from the latest FEMA Flood Insurance Study and/or extrapolated from a flow frequency curve. Based on the results of the hydraulic modeling, the bridge will be designed in accordance with the freeboard required by CVWD (currently published as 4-feet below the low chord of the bridge).

CONSULTANT will evaluate Whitewater River for scouring issues associated with the existing and interim conditions described above. The scour analysis will include local scour and contraction scour, as well as long term degradation scour based on a sediment transport study by CVWD (Whitewater River/Coachella Valley Storm Channel Existing Condition Sediment Model, Final Report dated September 5, 2019). CONSULTANT will perform a cursory review of the CVWD report and make minor modification to represent the channel

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elevation will be computed by adding the pier scour, contraction scour, and long-term degradation and subtracting that from the existing channel invert elevation. CONSULTANT shall prepare a Preliminary Bridge Design Hydraulics Study (BDHS) Report to summarize the recommendations and results from the hydraulic and scour analysis for the proposed bridge crossing. This scope assumes that a sediment transport study or alluvial fan study is not required. Deliverable(s): Preliminary Bridge Design Hydraulic Study Report (Draft and Final)

configuration in connection with the proposed Airport Boulevard Bridge replacement project. A total scour

3.11 PLAN OF ACTION (POA)

Based on the results of the scour analysis conducted for the existing condition, CONSULTANT will work with the geotechnical and bridge engineers to evaluate the bridge stability. If determined to be unstable using 100year flows, CONSULTANT will evaluate successively smaller flows (50-, 25-, and 10-year) until a stable condition is reached.

3.11.1 GEOTECH SCOUR ANALYSIS

CONSULTANT will perform calculations to assess the existing pile capacity at all piers for various scour conditions.

3.11.2 STRUCTURE SCOUR ANALYSIS

CONSULTANT will perform structural analysis for all pier foundations. Analysis will include calculation of existing foundation loading, including dead load, vehicular live load, stream flow pressure, river hydraulic load, wind loads and seismic loads to determine the service, strength and extreme loads on the individual piles at the pier.

The structural capacity of the existing concrete filled steel pipe piles will be investigated for various scour depths with a combination of vertical and lateral loadings and for determination of a critical scour depth. Using soil properties CONSULTANT will run L-pile analysis to determine the appropriate effective pile length and points of maximum moment and shear in the pile above and below the soil due to lateral loadings. The pile structural capacity will be determined for both elastic and inelastic limits and include pile slenderness effects.

CONSULTANT will summarize the results of the above analyses in a Scour Vulnerability Memorandum. The memo will be submitted to Riverside County for review and comment. The memo will then be updated and finalized.

3.11.3 SCOUR PLAN OF ACTION (POA)

Based on the results of our scour analyses, CONSULTANT will compile all necessary information into the Scour POA, including the scour history, technical analyses, countermeasure recommendations, and other background information. The two primary components of the Scour POA are: 1) instructions regarding the type and frequency of inspections to be made at the bridge and 2) a schedule for the timely design and construction of countermeasures to make the bridge safe from scour and stream instability problems.

Depending on the risk, the Scour POA will include development and implementation of a monitoring and inspection program, or immediate installation of countermeasures to reduce the risk of failure from scour or stream instability. If needed, the Scour POA will include instructions for closure of the bridge. The Scour POA will include the following key information:

- Scour Vulnerability Rating: This section will include the Scour Evaluation Summary and Scour History.
 Information from Structure Assessment, Geotechnical Assessment, and Hydraulic BIR will also be summarized in this section.
- NBIS Coding Information: This section will include the coding information of Item 113 Scour, Item 60
 Substructure, Item 61 Channel and Channel Protection, and Item 71 Waterway Adequacy.
- Scour Countermeasure: CONSULTANT will make recommendations on scour countermeasures based
 on the HEC-23 Manual guidelines and past experience. This section will include the Completed Scour
 Countermeasure and Proposed Scour Countermeasures. The commonly used scour countermeasures
 in California include, but not limited to, Riprap (with monitoring program), Guide Bank, Spurs/Bendway
 Weirs/Barbs, Relief Bridge/Culvert, Channel Improvements, Monitoring, Check Dam, Substructure
 Modification, and Bridge Replacement.
- Countermeasure Implementation Schedule: The schedule information will include the proposed construction Project, any maintenance Project, and other scheduling information.
- Monitoring Plan: Monitoring, if used, will include the provisions for Monitoring Plan Summary and
 Monitoring Authority.
- Bridge Closure Plan: This section will include the information regarding Bridge ADT, Year Built, Percentage of Trucks, Bridge Length, Closure Plan Summary, Scour Monitoring Criteria for Considering Bridge Closure, Person Responsible for Closure, and Responsible Person for Re-opening after Inspection.

Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)

Detour Route: The detour route information will include the Detour Route Description, Average ADT,
 Percentage of Trucks, Length of Detour, and Bridges on Detour Route.

CONSULTANT will prepare the POA and submit to the COUNTY for review and comment. The POA will then be updated and finalized.

Deliverable(s): Scour Vulnerability Memorandum and Scour Plan of Action

3.12 35% ROADWAY PLANS

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CONSULTANT will prepare 35% roadway plans for the project. The intent of the 35% plans is to gain consensus on project components and plan format, 35% plans shall be included as an attachment with the Preliminary Engineering Report. CONSULTANT will submit the 35% plans to the COUNTY for comments. The following plan sheets will be included in this submittal.

- Title
- Typical Cross Sections
- Combined Plan/Profile
- Utility
- Drainage
- Pavement Delineation

Deliverable(s): 35% Roadway Plans

3.13 PRELIMINARY DRAINAGE REPORT

CONSULTANT will conduct a preliminary drainage investigation to determine the existing drainage patterns and storm drain facilities in the project area, including existing channels/ditches, pipe locations, sizes, local rainfall intensities, and flows. This information will be obtained through a combination of field reconnaissance, Caltrans/County records and prior reports prepared for the project. After reviewing the existing drainage conditions, on-site hydrologic analyses will be conducted in accordance with Caltrans and County standards for the post-project condition, emphasizing the primary objective of maintaining existing flow patterns and runoff amounts.

The on-site analyses will include identifying where new facilities are needed and where existing facilities can be reused. For new facilities and existing facilities that will be impacted by the project, CONSULTANT will develop drainage boundaries for the areas within the project limits, develop future flows for each facility based on Rational Method calculations, and laying out the new/retrofitted storm drain facilities. If future land use is to

be used as a basis for the flow development, CONSULTANT will obtain future land use maps from the County.

A comparison of existing versus proposed peak flows will also be performed and appropriate mitigation

measures explored. Off-site analyses are not anticipated for this project.

A Preliminary Drainage Report will be prepared to document the preliminary drainage and hydraulic studies based on Caltrans/County criteria. The report will provide a detailed discussion of the existing conditions and facilities in the project area, the on-site hydrologic analyses and preliminary design methodologies, existing and post-project drainage patterns and conditions and any issues of special concern or significance. A draft of the report will be submitted to the County for review. Comments on the draft report will be addressed and the Preliminary Drainage Report will be updated and finalized.

Deliverable(s): Preliminary Drainage Report

3.14 ADVISORY AND MANDATORY FACT SHEETS

CONSULTANT shall complete all work necessary in the preparation of Fact Sheets for exceptions to advisory and mandatory design standards.

Deliverable(s): Advisory and Mandatory Fact Sheets

3.15 ENGINEER'S ESTIMATE

CONSULTANT shall develop preliminary engineer's estimate for three alternatives. The estimate shall be in Caltrans estimate format using escalation cost factors.

Deliverable(s): Preliminary Engineer's Estimate

3.16 PRELIMINARY ENGINEERING REPORT

CONSULTANT shall prepare a Draft and Final Preliminary Engineering Report conforming to the requirements of the Caltrans PDPM and District 8 guidelines. The report will include as attachments the following: 35% Plans, Preliminary Stage Construction exhibit, Final Operations Report, Preliminary Hydrology/Drainage Report, Advance Planning Studies, Preliminary Geotechnical Report, Advisory and Mandatory Fact Sheets, and Engineer's Estimate.

Deliverable(s): Draft and Final Preliminary Engineering Report

T4 ENVIRONMENTAL STUDIES AND DOCUMENTATION

CONSULTANT will perform all required environmental research and analysis necessary for the Project, pursuant to the CEQA and the NEPA requirements, as well as the policies and procedures contained in Caltrans' Environmental Handbook and the Local Programs Manual. To obtain environmental approval, key

issues to be addressed in the environmental studies include: biology, wetlands, water quality, air quality, visual, hazardous waste, noise, community impacts, trails, 4(f) resources and cultural resources. CONSULTANT shall perform all environmental documentation and coordination, which shall include the following:

4.1 PROJECT INITIATION

As part of project initiation, CONSULTANT will coordinate an initial public information meeting to inform local area residents and businesses about the project (this meeting will serve the same function as a scoping meeting, although a scoping meeting is not required for an EA). CONSULTANT will conduct all necessary activities to prepare for the meeting in terms of preparing and circulating notices (mailing list of property owners will be provided by the COUNTY), conducting team meetings needed to prepare for the meeting, and making presentations at the meeting itself. COUNTY staff will be responsible for obtaining a meeting location. CONSULTANT will be responsible for preparing any large-scale exhibits of the project area for use in the meeting.

Following a scheduled field visit with the County and Caltrans, CONSULTANT will prepare a PES form for the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA) work plan.

4.2 PRELIMINARY ENVIRONMENTAL STUDY (PES)

The CONSULTANT shall prepare the PES Form. This form is considered as a scoping document for the NEPA requirements from Caltrans Local Assistance. The PES Form will identify the recommended federal environmental documentation, technical studies, surveys, approvals, agency coordination, and permits required for the bridge and roadway work. An Area of Potential Effects (APE) boundary will be created for each project alternative that is pursued.

During the preparation of the PES Form, the environmental team will review the alternative alignments and identify the studies required and potential impacts for chosen alignment. The preliminary environmental work will assist in determining which project alternative(s) have the least environmental impact. CONSULTANT' will integrate environmental concerns into the refinement of the alternatives.

4.3 TECHNICAL STUDIES

CONSULTANT shall coordinate and prepare all required studies to be included in the Initial Study (IS), leading to a Mitigated Negative Declaration (MND) and Environmental Assessment. Preparation of all technical analyses and reports will follow local, state and federal environmental guidelines, primarily consisting of the CALTRANS Standard Environmental Reference (SER) website, CALTRANS Local Assistance Procedures

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Manual, local and state CEQA Guidelines, FHWA Guidance on preparing and processing Environmental and Section 4(f) documents. The formats to be used for the technical studies will follow the guidance available on the CALTRANS SER website as of the date that those studies are initiated.

Unless otherwise noted, the deliverables for the technical studies will be a separate bound report including a standardized project description, a methodology relevant to each topic area, description of the affected environment, impact assessment and mitigation measures. Each screencheck technical study will be submitted to the COUNTY for review. Following COUNTY review, the document will be revised and a screencheck technical study will be provided to CALTRANS for review. Following CALTRANS review, a Draft of each technical study will be submitted to the COUNTY for review and approval before submitting to CALTRANS. Following CALTRANS and COUNTY review, a second Draft of each technical study will be submitted to the COUNTY and CALTRANS. Following CALTRANS and COUNTY review of the second draft it is assumed that a revisions workshop will be held to address any outstanding comments, if any comments remain. Following the revisions workshop a final version of each report will be prepared. The final technical studies will be submitted following the workshop for final concurrence (no additional comments are assumed to be received associated with the final concurrence review). If the revisions are required due to the quality of the submittal made by CONSULTANT then these revisions would not be considered out of scope.

Deliverables:

- Screen check technical studies (submitted to COUNTY first then to CALTRANS) digital copy to COUNTY
- Draft technical studies
- Second Draft technical studies
- Final technical studies for concurrence
- Final approved technical studies

Technical studies include the following:

Preparation of the following technical reports if the preliminary evaluation shows they are necessary:

- Biological Resources
 - Natural Environmental Study
 - Wetlands Delineation

	0	Focused Wildlife Surveys, including Burrowing Owl and least Bell's Vireo and Southwestern		
		Willow		
	0	Flycatcher		
	0	Narrow Endemic Plant Surveys		
	0	Bat Daytime Habitat Assessment		
	0	Bat Night Emergence Survey (OPTIONAL)		
	0	CVMSHCP Consistency Finding		
	0	Endangered Species Act and Section 7 Consultation		
	0	Revegetation Plan		
•	Cultural Resources			
	0	Historical Property Survey/Historical Resource Evaluation/Archaeological Survey Report		
	0	Historic Resources Evaluation Report (OPTIONAL)		
	0	Phase II Evaluations (OPTIONAL)		
•	Air Quality Assessment (OPTIONAL)			
•	Noise Analysis (OPTIONAL)			
	0	Noise Abatement Decision Report (OPTIONAL)		
Hazardous Waste Study		dous Waste Study		
	0	Phase 2 Testing for ADL and Asbestos (OPTIONAL)		
•	Water	Quality Assessment Report		
•	Section 4(f) Evaluation			
•	Paleontology Report			
•	Visual	Impact Assessment		
ě	Conim	unity Impact Assessment (OPTIONAL)		
4.3.1 BIOLOGICAL RESOURCES				
Biological resource issues will be a key element in the design and approval of the Airport Bridge project.				
Wettan	Wet ands, threatened and endangered species, and designated critical habitat are present in the immediate			

Well inds, violnity of the project site. Potential project impacts to sensitive resources must be addressed in accordance with applicable protocols, regulations, and permitting procedures. CONSULTANT will conduct necessary surveys, prepare appropriate documentation, and process permits with regulatory agencies for an expeditious

review and approval of the Airport Boulevard Bridge Project. CONSULTANT will utilize every aspect of the CVMSHCP to simplify and expedite the environmental process for the bridge project.

The bridge replacement project may have the potential to impact protected species. CONSULTANT proposes to conduct focused surveys to allow sufficient time for Section 7 consultation.

Natural Environmental Study (NES)

CONSULTANT will perform a literature search and records check for sensitive biological elements reported in the project vicinity, conduct field surveys, and prepare the NES in accordance with Caltrans' Guidance for Consultants. The NES will include an analysis of types and amount of habitats present on site and the importance of these habitats in a regional context. The report will also assess cumulative impacts to these resources based on development in surrounding areas and address areas that may qualify as wetlands, waters of the U.S., or streambed(s). Impacts to wildlife movement will also be assessed. CONSULTANT will recommend mitigation measures for the impacts identified during the study, including mitigation measures for impacts to sensitive biological elements.

Wetland Delineation

CONSULTANT will complete a focused wetlands delineation and a jurisdictional "waters of the U.S." determination according to the 2008 Corps of Engineers Wetland Delineation Manual Arid West Supplement, the currently accepted methodology. CONSULTANT will also determine the extent of any streambed and associated riparian areas subject to review by CDFG under Section 1602 of the Fish and Game Code. The delineation results will be presented in a detailed report with appropriate technical documentation for use in permit applications. Attendance at field meetings with regulatory agencies for verifying the delineation and for making adjustments to the delineation as directed by the Corps of Engineers may be required.

Focused Wildlife Surveys

A preliminary review of literature resources has identified the potential occurrence of sensitive wildlife species in the project vicinity. The CONSULTANT will conduct focused wildlife surveys that are determined necessary during the initial biological reconnaissance and agency coordination; all surveys conducted will be consistent with the Coachella Valley Multiple Species Habitat Conservation Plan. The CONSULTANT will conduct surveys in accordance with the latest USFWS and CDFG survey protocols for these species.

Species which may require surveys include:

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Burrowing Owl

- **Desert Tortoise**
- Coachella Valley Fringed-Toed Lizard
- Southwestern Willow Flycatcher and least Bells' Vireo
- Plant Surveys as required by the CVMSHCP and CEQA
- Bat Habitat Assessment and optional Nighttime Bat Survey
- Bat Daytime Habitat Assessment
- Additional focused surveys may be required.

Bat Daytime Habitat Assessment

CONSULTANT shall conduct a visual survey of the bridge to identify and record potential day and/or nightroost habitat. A habitat assessment report will be prepared for inclusion in the NES.

Bat Night Emergence Survey (OPTIONAL)

Should the habitat assessment identify the presence of day-roosting bats, CONSULTANT shall conduct a night emergence survey. Night vision and bioacoustics equipment shall be used to record bat activity and develop data on species and approximate population, CONSULTANT shall complete a report documenting results.

CVMSHCP Consistency Finding

CONSULTANT will prepare information required for a CVMSHCP Consistency Finding from the Fish & Wildlife Service and Fish & Game. This task will include a Joint Project Review (JPR) checklist. The CVMSHCP Consistency Assessment will be included as a separate section in the NES.

Endangered Species Act and Section 7 Consultation (OPTIONAL)

The consultation will also address the presence of threatened or endangered species. CONSULTANT will coordinate with the project team and resource agencies to complete the Section 7 consultation, including preparation of summary documentation and attendance at meetings if required.

Revegetation Plan (OPTIONAL TASK)

If necessary, and the channel is not concrete lined prior to the bridge replacement project being implemented, CONSULTANT will develop a revegetation plan that will consist of the plant/seed species selected, a planting plan sheet, and installation details To comply with requirements of regulatory agencies including USFWS, US Army Corps of Engineers, and CDFG.

4.3.2 CULTURAL RESOURCES

CONSULTANT shall prepare documentation in accordance with Section 106 and AB 52. This work shall include the efforts to record archaeological and historical resources identified within the study area, including the investigation of the existing Airport Boulevard Bridge based on the CALTRANS Bridge Inventory. A Historic Property Survey Report (HPSR) will be prepared to identify and evaluate each cultural resource in the project area and evaluate the potential for impacts this project could have on those resources.

Historic Property Survey Report (HPSR) and Archaeological Survey Report (ASR)

All cultural resource efforts will be completed in compliance with Section 106 of the National Historic Preservation Act (NHPA) and AB 52, and will follow the requirements set forth in the Caltrans Environmental Handbook Volume II, Cultural Resources and the Programmatic Agreement among the Federal Highway Administration, the Advisory Council on Historic Preservation, the California State Historic Preservation Officer (SHPO), and the Caltrans Regarding Compliance with Section 106 of the NHPA, as it pertains to the administration of the Federal-aid Highway Program in California, and CEQA.

Historic Resources Evaluation Report (HRER) (OPTIONAL)

CONSULTANT will prepare a Caltrans formatted HRER to evaluate the structural resources within the project footprint, including structures previously not evaluated. The report will evaluate the built environment for structures that are older than 50 years and that have been previously listed on or are eligible for the National Register of Historic Places (NRHP).

Area of Potential Effects (APE) Map

CONSULTANT will coordinate with COUNTY and Caltrans to develop the APE Map for review and approval.

Research

A cultural resource records search will be conducted at the Eastern Information Center (EIC), located at UC Riverside. The EIC is the state-designated repository for records concerning cultural resources in Riverside County. The records search will provide information on known cultural resources and on previous cultural resources investigations within a one-mile radius of the project area. Data sources that will be consulted at the EIC include archaeological site and artifact records, historic maps, reports from previous studies, and the state's Historic Resource Inventory for Riverside County, which contains listings for

National Register of Historic Places, California Register of Historical Resources, California Historical Landmarks, and California Points of Historical Interest.

In addition, CONSULTANT will complete research for the properties within the APE to determine built dates for any buildings and structures. If any buildings/structures 30 years and older or archaeological are located within the APE, additional tasks may be required.

Native American Coordination

CONSULTANT will contact the Native American Heritage Commission (NAHC). The NAHC will provide a list of Native American groups to contact regarding this project. CONSULTANT will coordinate with Caltrans and the COUNTY to consult with the tribes. With COUNTY and Caltrans approval, CONSULTANT will contact each tribe via certified mail. After 28 days, CONSULTANT will follow up with those groups that have not commented via telephone. CONSULTANT will document all efforts to consult with each tribe. Consultation will be completed in compliance with Section 106 and AB 52.

Field Survey

CONSULTANT will conduct a systematic field survey of portions of the APE that are not obscured by asphalt/concrete, specifically focusing on the Santa Ana Riverbanks and terraces. The ground surface will be visually examined by an archaeologist for evidence of prehistoric (Native American) or historic (non-Native American) archaeological materials and other potential historic resources (e.g., buildings, bridges, railroads, mines, or canals). To meet State standards, any previously unrecorded resources identified during the survey will be recorded on State of California DPR 523 forms.

Reports

CONSULTANT will prepare a Caltrans format Historic Property Survey Report (HPSR) and Archaeological Survey Report (ASR) according to Caltrans specifications. The reports will describe: 1) the results of Native American Consultation, 2) research and field methods used in identifying cultural resources, 3) the archaeological and historic resources identified in the project vicinity, and 4) the potential of the project to adversely impact any archaeological or historic resources.

4.3.3 AIR QUALITY ASSESS// ENT (OPTIONAL)

If the project is determined to be a widening instead of a replacement, and the project is not exempt from air quality requirements, CONSULTANT will prepare an Air Quality Impact Assessment for the Project's operation and construction in accordance with the Caltrans' Transportation Project Level Carbon Monoxide (CO) Protocol,

the EPA's fugitive dust conformity rule, and the Air Quality Management District's (AQMD) CEQA regulations for the South Coast Air Basin (SCAB).

For the description of existing ambient air quality, the report will use baseline and project-setting meteorological and air quality data in the SCAB area developed through the California Air Resources Board (CARB), along with climatological and air quality profile data gathered by the AQMD. Air quality data from the monitoring station (the nearest air quality monitoring station) will be included to help highlight existing air quality local to the proposed project site. Other sources such as regulatory documents, professional publications, will supplement background information.

The project will be undergo Interagency Consultation with SCAG's Transportation Air Quality Conformity Group to confirm it is not a Project of Air Quality Concern, per the Environmental Protection Agency's Criteria for Projects of Air Quality Concern (40 CFR 93,123 (b)(1)). The proposed Project's impacts on the local and regional fugitive dust emissions (PM2.5 and PM10) will be evaluated using the Environmental Protection Agency's Transportation Conformity Guidelines for Qualitative Hot-spot Analyses in PM2.5 and PM10 Nonattainment and Maintenance Areas, Carbon Monoxide hot-spot analysis will be performed following Caltrans' Transportation Project-Level Carbon Monoxide Protocol. A separate Air Quality Conformity Analysis will be prepared following public circulation of the Environmental Assessment and provided to FHWA for the final project-level conformity determination. CONSULTANT will work with Caltrans and the AQMD to identify feasible mitigation measures that will be developed as indicated in the impact analysis.

4.3.4 NOISE STUDY REPORT (OPTIONAL)

If the project is determined to be a widening instead of a replacement, and the project considered a Type I project, CONSULTANT will prepare a Noise Study Report that assesses the Project's potential effects on existing and future noise conditions, including construction impacts. CONSULTANT will review applicable State (Caltrans), the COUNTY, and the City of Coachella noise and land use compatibility criteria for the project area. Noise standards regulating noise impacts, including Federal Highways (FHWA) Noise Abatement Criteria (NAC), and standards included in the City and County General Plan Noise Elements and Noise Ordinances, will be discussed for land uses adjacent to the Project. The areas with potential future noise impacts will be identified using land use information, aerial photographs, and field reconnaissance. Existing roadway traffic noise will be calculated as baseline conditions, using traffic data included in the traffic study for the proposed

Project. Onsite noise measurements will be taken to quantify existing ambient noise and to identify variations in sound levels throughout a day.

A CEQA compliant Noise Study will be prepared.

A survey of existing ambient noise levels will be conducted to establish the character of the noise environment at any sensitive receptor locations in the project area. Analysis requirements will be based on the sensitivity of the area and the Noise Ordinance specifications of the Cities. The existing and future noise levels will be assessed using the traffic noise impact screening procedure outlined in Section N-4000 of the Caltrans Technical Noise Supplement (TeNS). If the proposed Project fails the screening criteria, a detailed analysis will be performed as outlined in section N-5000 of the TeNS using the most recent version of the Traffic Noise Model 2.5 (TNM 2.5). If the future with-project noise levels are estimated to approach or exceed the Noise Abatement Criteria, noise abatement measures (such as sound barriers) will be analyzed and any necessary abatement measures will be assessed for feasibility and reasonableness. If both feasible and reasonable, abatement measures will be included in the Project to reduce potential noise impacts to a less than significant level.

4.3.5 NOISE ABATEMENT DECISION REPORT (OPTIONAL)

Based on the Noise Study Report, if noise impacts warrant abatement, CONSULTANT will prepare a Noise Abatement Decision Report (NADR). The NADR will be completed by the project design engineer and will evaluate the reasonableness and feasibleness of constructing the noise abatement. This will be based on constructability of the barrier, cost of building the barriers, and allotment of abatement cost per resident. If a soundwall is evaluated as both reasonable and feasible, CONSULTANT will coordinate with the public to determine if they want the wall.

4.3.6 HAZARDOUS WASTE (INITIAL SITE ASSESSMENT)

CONSULTANT will prepare a Hazardous Waste Initial Site Assessment (ISA), including the tasks described below. Complete a governmental records search to update the listing of properties or known incidents shown on federal and State databases for hazardous waste sites within one-half mile of the project area included in the previous ISA. Conduct a site visit to identify any visible exterior areas of potential contamination that might impact the proposed project implementation. If hazardous waste sites are identified within the project study area (via governmental records and/or the visual survey), CONSULTANT will determine the potential impact to

the project, and will identify subsequent procedures to determine the extent of contamination and remediation requirements.

4.3.7 HAZARDOUS WASTE PHASE II TESTING (OPTIONAL)

If the ISA finds that additional hazardous waste testing is needed, CONSULTANT will perform a limited Phase II Environmental Site Assessment to further evaluate any potential hazardous waste issues raised during the ISA, including aerially deposited lead (ADL) and the potential for asbestos in structures. The Phase II assessment includes collecting and analyzing soil/water samples and documenting the conclusions and recommendations in a report.

4.3.8 WATER QUALITY ASSESSMENT REPORT

CONSULTANT will prepare a Water Quality Assessment Report to address the project impacts on water quality based on current County guidelines (Colorado River MS4 Permit Program). The report will discuss receiving water conditions, objectives, and beneficial uses, as well as standard best management practices (BMPs) and project design features required in accordance with the current COUNTY standards. Additionally, compliance with the National Pollution Discharge Elimination System (NPDES) requirements from the WQCB, in accordance with the NPDES general construction activity storm water discharge permit, will be identified. Likewise, compliance with Section 401 of the Clean Water Act will ultimately be necessary (water quality certification). With the requirements and BMPs specified in the Water Pollution Prevention, County of Riverside – Guidance and Standards, specific mitigation measures will be identified that ensure no significant water quality impacts.

4.3.9 SECTION 4(F) EVALUATION

The project has the potential to impact Section 4(f) resources (public parklands, recreation facilities, and sites listed on or eligible for listing on the National Register of Historic Places), including the Coachella Valley Link. CONSULTANT will prepare a Section 4(f) Evaluation to discuss minimization and avoidance measures and to document any impacts to the 4(f) resources.

4.3.10 PALEONTOLOGICAL REPORT

CONSULTANT will prepare a Caltrans format Paleontological Identification Report / Paleontological Evaluation Report (PIR / PER) and a Paleontological Mitigation Plan (PMP) (OPTIONAL) to evaluate the potential to encounter paleontological resources during ground-disturbing activities and to provide a mitigation plan if necessary.

4.3.11 VISUAL IMPACT ASSESSMENT

CONSULTANT will assess existing visual resource conditions in the project area. The assessment will include an inventory including photographic documentation of the following existing conditions: viewpoints; notable visual resources; the vividness, intactness, and unity of the project area; and, the site's landscape units. Photographs will be used in the analysis and for graphics. CONSULTANT will collect and review the appropriate municipal plans from the Cities. The plans will be reviewed for applicable guidelines, policies, and objectives pertaining to highway facilities and visual resources. The Visual Impact Assessment will be completed under the direction of a certified landscape architect.

Pre-project conditions will include a definition of landscape units within the project area, a regulatory setting, and explanation of the methodology used. The analysis will be performed using methods and protocol developed by the FHWA and adopted by Caltrans, in combination with elements of other visual resources assessment methods (including U.S. Forest Service and Bureau of Land Management). The analysis will be performed using a matrix to compare visual resources within defined landscape units, and will include: visual quality and character; the viewers and viewpoints; and, changes in vividness, intactness, and unity. Photograph simulations (a minimum of three) will be prepared in order for the COUNTY, agencies, and interested public to compare existing and proposed conditions of the project area.

4.3.12 COMMUNITY IMPACT ASSESSMENT (OPTIONAL)

If required by Caltrans during review of the PES, CONSULTANT will prepare a Community Impact Assessment (CIA) to document potential impacts this project could have to the local community, minority, and low income populations as well as evaluating the potential for public controversy. Pursuant to NEPA requirements, impacts to the low income population will be evaluated consistent with federal Environmental Justice policy.

The CIA will be based on current Caltrans Guidelines (Environmental Guidelines Volume 4, Chapter 2'4 – Community Impacts) and will discuss Social Impacts, Businesses and Residences affected by the project, and community resources such as schools, parks, and emergency services.

4.3.13 LOCATION HYDRAULIC STUDY/FLOODPLAIN EVALUATION REPORT SUMMARY

Replacement of the Airport Boulevard Bridge will involve encroachment on the base floodplain of the Whitewater River. As a result, the federal guidelines provided in Executive Order 11988 - Floodplain Management require that a Location Hydraulic Study and Floodplain Evaluation Report Summary be prepared to supplement the environmental document. These studies are based on a hydraulic analysis performed to evaluate the impact of

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the proposed improvements on the floodplain during 100-year flood conditions. The hydraulic analysis will include the following conditions:

- Existing: An analysis of the existing condition will be performed to provide a baseline condition using the 100-year flow frequency.
- Proposed: An analysis of the proposed condition will reflect the hydraulic impacts of the bridge replacement using the 100-year flow frequency. CONSULTANT will coordinate with the County and CVWD to determine if this condition will include the Whitewater River channel improvements proposed by CVWD.

The results of each model will be assessed to determine the impact of the proposed improvements on the hydraulic conveyance of the Whitewater River as well as the risk to floodplain values and adjacent properties. Dokken will prepare a Draft Location Hydraulic Study and Floodplain Evaluation Report Summary to discuss the results of the analysis and compare the impacts/risks of each project being considered. The study will include a discussion of the following items, commensurate with the significance of the risk or environmental impact:

- a) The risks associated with implementation of the action.
- b) The impacts on natural and beneficial flood-plain values.
- c) The support of probable incompatible flood-plain development.
- d) The measures to minimize flood-plain impacts associated with the action.
- e) The measures to restore and preserve the natural and beneficial floodplain values impacted by the action.
- f) An evaluation and discussion of the practicability of alternatives to any longitudinal encroachments.
- g) Evaluation and discussion of the practicability of alternatives to any significant encroachments or any support of incompatible floodplain development.

This document will be submitted to the County and Caltrans for review. Comments on the draft report will be addressed and the Location Hydraulic Study will be updated and finalized.

Deliverable(s): Draft and Final Location Hydraulic Study and Summary Floodplain Encroachment Report

4.4 ENVIRONMENTAL DOCUMENT

4.4.1 DRAFT ENVIRONMENTAL DOCUMENT

As previously described it is assumed that the appropriate document for the proposed project would be an Initial Study/ Mitigated Negative Declaration (IS/MND) and NEPA Categorical Exclusion. If a higher level CEQA or NEPA document is identified as the appropriate document for the proposed project based on the technical analyses performed then this will be communicated to the COUNTY and CONSULTANT and a scope and cost for performing this work will be submitted. However, based on our review of the proposed project this is not anticipated.

The IS/MND will be prepared by CONSULTANT using a COUNTY-approved format (assumed to be the CEQA Checklist). To reduce iterations of the document, CONSULTANT will conduct a revision workshop with the COUNTY, if needed, to facilitate completion of the document following the review of the Draft IS/MND, if comments still remain after this review. The IS/MND will include an Environmental Commitment Record (ECR). The following submittals are assumed.

Deliverable(s):

- Administrative Draft IS/MND
- Draft IS/MND
- Final Draft IS/MND for COUNTY approval
- Environmental Commitments Record (ECR) (included as an appendix in each submittal of the IS/MND)
- Final Draft IS/MND for availability

4.4.2 NOTICE OF AVAILABILITY

For the proposed project CONSULTANT will utilize a distribution list developed with the COUNTY to distribute the document. It is assumed that CONSULTANT's right of way consultant will provide a list of owners and residents, along with their mailing addresses, within 500 feet of the proposed project limits. CONSULTANT will prepare a Notice of Intent to adopt a MND (NOI) in accordance with COUNTY requirements for publication in a newspaper of local circulation (both English and Spanish), for posting at the Riverside County Clerk's office, and for distribution to anyone who has filed a written request with the COUNTY. A draft notice will be provided to the COUNTY for review and approval. It is assumed that CONSULTANT will coordinate publication of the notice with the appropriate newspapers. A cost of \$7,000 for publishing of the notices is assumed. If the cost is in excess of this amount then CONSULTANT will notify the COUNTY and this will be billed to the COUNTY at

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cost for reimbursement. It is assumed that the technical studies will not be included in the availability but copies will be available if requested by anyone during the public availability period. Hardcopies of the document and NOI will be provided to the availability locations (COUNTY and libraries), CDs containing the document and a hard copy of the NOI will be provided to other agencies and officials included on the distribution list (and anyone else who specifically requests a copy of the document), and a copy of the NOI will be provided to property owners and residences within a 0.5 mile radius of the proposed project (as provided by CONSULTANT's right of way consultant). A Draft State Clearinghouse Form (Notice of Completion & Environmental Document Transmittal) will be prepared and submitted to the COUNTY for review. The final form, along with the Draft IS/MND, will be electronically submitted by CONSULTANT to the State Clearinghouse.

Deliverable(s):

- Draft NOI
- Final NOI
- Draft and Final Notice of Completion & Environmental Document Transmittal

4.4.3 RESPONSE TO COMMENTS

At the close of the public availability period for the Draft IS/MND, CONSULTANT will review and respond to all comments received. The comments will be responded to and incorporated directly into the Final IS/MND. It is assumed that no comments requiring legal review or requiring new analyses or from lawyers will be received.

Deliverable(s): Responses to comments (included in Final IS/MND)

4.4.4 FINAL ENVIRONMENTAL DOCUMENT

CONSULTANT will revise the IS/MND to respond to the comments and to document whether any changes to the project have occurred. The following submittals are assumed. If comments remain after the revised draft Final IS/MND then a revision workshop will be held to address any remaining comments. The IS/MND will include an Environmental Commitment Record (ECR).

Deliverable(s):

- Draft Final IS/MND for review
- Final IS/MND for review
- Final IS/MND

4.4.5 NOTICE OF DETERMINATION (FINAL)

CONSULTANT prepare the Notice of Determination (NOD) in compliance with CEQA. It is assumed that CONSULTANT will file the NOD with the Office of Planning and Research (OPR). The NOD would also be posted with the Riverside County Clerk. This notice starts a statute of limitation period under CEQA. Along with the NOD a California Department of Fish and Game (CDFG) filing fee would also be filed. The CDFG filing fee has been included in the submitted cost estimate and is assumed to not exceed \$2,500.

Deliverable(s): Draft and Final Notice of Determination (all transmittals assumed to be done electronically)

4.4.6 NEPA CE

Based on the environmental technical studies previously discussed a Categorical Exclusion (CE) will be prepared pursuant to NEPA. CONSULTANT will prepare the CE/CE form (NEPA portion only) in compliance with the latest format identified on Caltrans Standard Environmental Reference website. As part of the CE a brief (two to three sentences) summary of the findings of each of the technical studies will be included. No separate environmental document is assumed to be prepared to support the CE and none is included in this scope and cost. The CE/CE form will include the Environmental Commitment Record (ECR) as an attachment.

Deliverable(s): Draft and Final NEPA CE

PHASE II - PLANS, SPECIFICATIONS AND ESTIMATES

The scope of services for the Final PS&E of Airport Boulevard Bridge assumes the following conditions exist:

- Project limits from approximately 750 feet west of Orange Street intersection to intersection with
- Desert Cactus Drive.
- Final Bridge and Roadway would be a four-lane facility.
- Design speed for Airport Boulevard would match existing speed on Airport Boulevard
- Whitewater River improvements would have been constructed by CVWD prior to bridge construction;
 CONSULTANT team will coordinate with CVWD and their consultants during the bridge design.
- All design level surveys will be performed by the County Surveyor's office
- Right-of-way and temporary construction easement will be handled by the County Surveyor's office

T5 PROJECT MANAGEMENT

Project Management shall be conducted to ensure a smooth flow of information between Project Development Team (PDT) members. A project schedule shall be developed and periodically updated. A comprehensive Quality Assurance/Quality Control (QA/QC) plan shall be implemented. Monthly PDT Meetings shall be held.

5.1 PROJECT COORDINATION AND PROJECT TEAM MEETINGS

A Project Development Team (PDT), for the Plans, Specifications and Estimates Phase, including representatives from the COUNTY and the City of Coachella, Caltrans Local Assistance, subconsultants, and other relevant agencies will be established once Phase I is completed. PDT meetings with the COUNTY PROJECT MANAGER and other representatives from affected agencies will be held at least once a month. CONSULTANT shall prepare minutes for each meeting and distribute the minutes to all attendees and other interested parties.

5.2 MONTHLY PROGRESS REPORTS

CONSULTANT shall prepare progress reports to record the progress of the project and as supporting data for invoices presented monthly to the COUNTY. The Progress Report shall include accomplished tasks for the month, anticipated progress for the next month, pending issues and schedule completion target dates. CONSULTANT shall mail progress reports with the monthly invoices and deliver the Progress Reports to the COUNTY at the monthly PDT meetings.

5.3 PROGRESS SCHEDULE

CONSULTANT shall provide a detailed project baseline schedule, indicating milestones, major activities and deliverables, to the COUNTY for review and comments. CONSULTANT shall update the schedule on a monthly basis, to coincide with the PDT meetings or as required.

5.4 QUALITY CONTROL

CONSULTANT shall have a quality control plan in effect during the entire course of the project. CONSULTANT shall develop a plan establishing a process to ensure design calculations are independently checked. Exhibits and plans shall also be checked, corrected and back-checked for accuracy and completeness. CONSULTANT shall review environmental and engineering Sub-consultant report submittals to ensure that appropriate background information, study methodology, interpretation of data, format and content are completed in accordance with current standards.

5.5 COST ACCOUNTING

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

Deliverable(s): Prepare meeting notices, agendas and minutes, schedules, monthly progress reports and invoices, and maintain project files.

T6 GEOTECHNICAL REPORT

Geotechnical work will include conducting a field investigation, performing laboratory tests, and conducting analyses to develop geotechnical parameters and recommendations for the design and construction of proposed structures, roadway embankment, and pavement structural sections.

6.1 GEOTECHNICAL FIELD INVESTIGATIONS

Field investigation will commence following the approval of the Bridge Type Selection Report. A soil boring is proposed at each bridge support location in order to meet the AASHTO (2012) soil boring requirement for bridges. The targeted boring depth should extend to at-least 20 feet below the expected tip elevation. Two abutment borings were previously drilled; therefore, only four borings are planned for this bridge with anticipated drill depth of 100 to 130 feet. Borings will be terminated if refusal is encountered above the targeted depth. The four pier borings will be drilled inside Whitewater River or from the existing bridge deck. One additional 30-foot deep boring will be drilled on Airport Boulevard adjacent to the proposed 5-foot tall retaining wall and will also be used for pavement design.

A truck-mounted rotary-wash drilling rig will be used to perform the field exploration. Cone penetrometer test (CPT) soundings can be used to replace some of the proposed soil borings. Spoils generated from the boring excavations, if tested free of hazardous materials, shall either be used to backfill the boreholes or spread over the top of existing unpaved ground. If spoils are used to backfill boreholes, the spoils will be mixed with cement and/or bentonite and water. Excess spoils from the borehole excavations shall be placed in drums at the bridge site, tested for potential contaminants, then removed from the bridge site, and disposed of to a landfill site. Boreholes shall be advanced in unpaved areas if possible. If necessary to drill in paved areas, asphalt concrete cold-patch or rapid-set Portland cement concrete shall be used to patch pavement.

CONSULTANT shall prepare borehole location plans. These plans shall be provided to COUNTY, prior to the field investigation, for the purpose of securing the required encroachment permits. CONSULTANT will secure

permits from the City of Coachella, Riverside County and the Coachella Valley Water District (CVWD). It is likely that the CVWD permit will require support from the environmental consultant.

Prior to drilling, borehole locations shall be marked and cleared through DigAlert. Traffic control will be required when the pier borings are performed from the existing bridge deck. CONSULTANT shall collect soil samples for laboratory testing, including bulk samples of near-surface soils and driven Standard Penetration Test (SPT) and California Ring samples of deeper soils. The driven soil samples shall be collected at vertical intervals of 5 feet or 10 feet. Groundwater depth shall be measured. Samples of subsurface soils shall be logged during the field investigation, secured in their containers or collected in plastic bags, and transported to a soil testing laboratory.

6.2 LABORATORY TESTING

CONSULTANT shall select representative soil samples for laboratory testing. Various laboratory tests shall be performed to estimate physical and engineering characteristics of soils. The actual tests performed shall be based on conditions encountered. For planning purpose, the tests shall include in-place moisture and density, Passing #200 Sieve, grain size distribution, direct shear tests, UU triaxial, R-value and soil corrosion tests. Tests shall be conducted in general accordance with California Test (CT) methods or American Society for Testing and Materials (ASTM) standards.

6.3 GEOTECHNICAL ENGINEERING ANALYSIS

Results obtained from the field investigation and laboratory testing shall be used to characterize subsurface soils and conditions and create idealized profiles for design purposes. The following analyses in accordance with CALTRANS standards shall be performed for the project:

- Evaluate seismicity, estimate Peak Ground Accelerations, and determine an Acceleration Response
 Spectrum (ARS) curve.
- Evaluate liquefaction potential and seismically-induced settlement.
- Determine axial and lateral capacity of bridge foundations.
- Evaluate settlement and global stability of new or widened embankments.
- Evaluate settlement and bearing capacity of spread footings for a retaining wall.
- Evaluate soil corrosivity.
- Evaluate the subgrade resistance (R-values) values for pavement design.
- Design of pavement structural section in accordance with the Caltrans method.

6.4 GEOTECHNICAL REPORT

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The findings and recommendations will be presented in a Geotechnical Report.

Deliverable(s): Geotechnical Report

T7 HYDRAULICS & STORM WATER

7.1 DRAINAGE REPORT

CONSULTANT will update and expand upon the Preliminary Drainage Report that was prepared during the Preliminary Engineering / Environmental Clearance / Technical Report phase of the project, CONSULTANT has previously determined the existing drainage patterns and storm drain facilities in the project area, including existing channels/ditches, pipe/culvert locations, sizes, local rainfall intensities, and flows. This information will be used for on-site hydrologic analyses of the existing and post-project condition, emphasizing the primary objective of maintaining existing flow patterns and runoff amounts.

The on-site analyses will include identifying where new facilities are needed, developing drainage boundaries for the areas within the project limits, developing flows for each facility based on Rational Method calculations, and laying out the new/retrofitted storm drain facilities. The off-site analyses involve obtaining flows for the water courses draining toward and/or through the project area from outside the project limits and designing new or upgraded facilities for these flows. If flows are not readily available for these water courses and the contributing watersheds exceed 0.5 square miles, ENGINEER will approximate the off-site flows based on the conveyance of facilities immediately up- or downstream. For off-site watersheds less than 0.5 square miles in area, drainage boundaries will be developed, and flows calculated based on the Rational Method where appropriate.

A draft Drainage Report will be prepared to document the hydrologic and hydraulic analysis and will provide a detailed discussion of the following: existing conditions and facilities in the project area, the on- and off-site hydrologic analyses, existing and post-project drainage patterns, conditions and any issues of special concern or significance, results of the on- and off-site hydraulic analyses and any issues of special concern or significance. The draft report will be submitted to the COUNTY for review at the 65% and 95% milestone and will be finalized upon completion of the 100% PS&E.

Deliverable(s): Draft and Final Drainage Report

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7.2 BRIDGE DESIGN HYDRAULIC STUDY REPORT

During the Preliminary Engineering / Environmental Clearance phase of the project, a Bridge Design Hydraulic Study (BDHS) Report was prepared. During the design phase, the Preliminary BDHS Report will be updated to reflect:

Design Changes: Any changes/refinements to the bridge design or the CVWD channel improvements that were not captured in the preliminary report will be updated in the hydraulic model.

Construction Condition: An analysis of the construction condition will be performed to reflect the hydraulic impacts associated with the first phase of construction when both the existing and proposed bridge piers are in the channel simultaneously.

The hydraulic and scour analysis will be updated during the design phase to reflect the above conditions, and the BDHS Report will be revised to reflect the new freeboard and scour results. A draft report will be submitted to the COUNTY for review at the 65% and 95% milestone and will be finalized upon completion of the 100% PS&E.

Deliverable(s): Draft and Final Bridge Design Hydraulic Study Report

7.3 NPDES DATA FORM

CONSULTANTS's Qualified Stormwater Developer (QSD) will complete the County's Transportation Improvement Project NPDES Data Form. Preparation of the NPDES Data Form will include determining the construction period/duration, the total disturbed and percent impervious area of the project site, the project category and MS4 permit region, the receiving water and groundwater conditions, and the project's risk level. The form will be submitted to the County at the 65% milestone and will be finalized on completion of the 100% PS&E.

Deliverable: Draft and Final NPDES Data Form

7.4 STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

CONSULTANT shall prepare Storm Water Pollution Prevention Plans (SWPPPs) for the preferred project alternative. The SWPPPs shall meet the requirements outlined in the California Construction General Permit, Order 2009-0009-DWQ as amended by Orders 2010-0014-DWQ and 2012-0006-DWQ (California CGP). The SWPPPs shall be prepared using the CASQA Template and shall be signed by a Qualified SWPPP Developer (QSD).

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The SWPPPs shall address the required elements including project pollutants and their sources, including control measures (BMPs); identification of non-storm water discharges and measures for their elimination, control, or treatment; BMPs that are effective and result in the reduction or elimination of pollutants in storm water and authorized non-storm water discharges; BMPs for control of site run-on; BMPs to stabilize soils disturbed by construction; and a description of post-construction BMPs incorporated into the project design to control the discharge of pollutants from the completed project.

Deliverable(s): SWPPP

T8 UTILITY COORDINATION

8.1 UTILITY COORDINATION

The intent of the COUNTY is that the services of the CONSULTANT shall be complete and "turn-key" with respects to all utility coordination matters, including complete coordination for the protection and relocation of existing facilities as described herein, as well as 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 and Caltrans utility coordination staff with respect to all utility related matters, including but not limited to:

- a. Requests for utility as-built plans and inventory maps.
- b. Request for property rights information.
- c. Design coordination meetings and communications.
- d. Notices to owner to initiate design.
- e. Notices to owner and agree ments to pothole including submissions to CALTRANS for encroachment permits.
- f. Inclusion of utility inic mation, including sub-surface engineering data, on improvement plans.
- g. Notices to owner to relocate conflicting utilities.

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- h. Coordination and communication with respect to utility facilities that are to be installed within planned bridge structures including preparation of agreements as required.
- Coordination and communication with respect to utility facilities that are to be installed prior to or concurrent with COUNTY's construction project, including preparation of agreements as required.
- j. No conflict letters.
- k. Other procedures and communications as required.

CONSULTANT shall provide copies of all correspondence with utility companies and other utility related information to the COUNTY and Caltrans as required.

CONSULTANT shall act as extension of staff to implement utility coordination and relocation in accordance with Caltrans Local Assistance Procedures Manual, Chapter 14 and necessary COUNTY procedures, including but not limited to:

- a. Preparation of Letters to Owners of Utilities
 - Many letters will require signature by County's utility coordination or project management staff.

 CONSULTANT shall prepare letters for County signature as required. CONSULTANT shall prepare

 and send correspondence under CONSULTANT's signature when feasible and appropriate.
- Phone, Email and Office Communication
 CONSULTANT shall communicate effectively as needed to achieve necessary and required utility
 coordination and relocations via all communication methods.
- c. Meetings
 - CONSULTANT shall set up utility coordination meetings as needed.
- d. Agreements
 - CONSULTANT shall prepare Agreements utilizing Caltrans format and language, modified as necessary for execution by the County of Riverside.
- e. Submittals
 - CONSULTANT shall submit letters, notices to owner, agreements, and other documents to COUNTY and Caltrans for reviews and approvals.
- f. Caltrans Procedures, General
 - CONSULTANT shall comply fully with Caltrans utility coordination procedures, as outlined in Chapter
 14 of the Caltrans Local Assistance Procedures Manual. CONSULTANT shall be knowledgeable in

the required procedures and shall coordinate with COUNTY and Caltrans as required. CONSULTANT shall maintain files in accordance with Caltrans filing requirements and shall provide Caltrans with duplicate files and shall provide COUNTY with original files upon completion of construction.

Other and related duties of CONSULTANT are as follows, as appropriate and as required:

CONSULTANT shall 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 owning utility companies and through research of other record maps, field surveys shall be used to locate utility features such as manholes, valves, fire hydrants, poles, risers, etc., which shall be reflected on the plans.

If it is necessary to pothole existing utilities at critical locations, CONSULTANT shall coordinate with COUNTY and Caltrans staff to arrange with the respective utility owner to pothole its facility. CONSULTANT shall coordinate the use 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 to owning utility companies within the project limits with request for review and comments on the plans relevant to their respective facilities, and 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 regarding 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 as early as practical. Utility conflict issues shall be resolved prior to the completion of the final design plans as follows:

Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)

- 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 or Caltrans right-of-way, but may have prior rights to that of the COUNTY
 / Caltrans or may have rights prescribed by Master Utility Agreements between Caltrans and utility
 companies.
- CONSULTANT shall coordinate inclusion of special provisions in County's bid documents for
 adjustments and relocations of utility facilities as alternate bid items, if requested by the owning utility.
 Said work may require that cooperative agreements be prepared between the County of Riverside and
 the owning utility companies. CONSULTANT shall prepare agreements and shall provide information
 and exhibits as required to support the 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, CONSULTANT shall prepare notices to owner relocate conflicting facilities. However, it is expected that COUNTY staff will sign the orders.

CONSULTANT shall make recommendations for special provision language regarding utility issues, recommendations for construction windows of time for utility relocation activities, recommendations for inclusion of utility bid items, etc.

CONSULTANT shall coordinate with COUNTY survey and utility companies as required with respect to prior rights claims and determinations.

If new water 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 water service point from the serving water company for each water meter to be
installed and identify requirements that the serving 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.

Deliverable: CONSULTANT shall prepare the following:

- Irrigation design to show preferred service location.
- Application to water purveyor for water service point, including any and all water use calculation information and landscaping plans as required by Water Company.
- Obtain service address from appropriate municipality.
- Obtain approved water service plan from water purveyor.
- Staging plans for relocation of water meters.
- Application to water purveyor for water service, including coordination with account holder for signatures, payments of fees, etc.
- Service spreadsheet and exhibit as described herein.
- Plans, special provisions, and water company drawings, details and requirements for inclusion in bid package.

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 all appropriate 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 of the potholes. The

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CONSULTANT	shall determine	whether the	facilities	are in	conflict,	and the	limits	of the	conflict,	both (of whi	ch
shall be shown	on the utility pla	ns with cons	truction r	otes.								

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.

Specific issues, Caltrans requirements and utility company requirements may result in deviation from the procedures outlined herein.

If and as applicable, CONSULTANT shall perform all tasks required with respect to utilities to enable certification of right-of-way for the project. Certification of the utility section of the Right-of-Way certification shall be in accordance with Chapter 13 of the Caltrans Local Assistance Procedures Manual and shall comply with applicable Federal and State requirements. CONSULTANT shall be fully knowledgeable in the requirements to certify Right-of-Way with respect to utilities and shall schedule project activities accordingly.

CONSULTANT shall communicate and coordinate with County's Project Manager and Utility Unit and shall request and coordinate any necessary actions of the County which cannot be performed by CONSULTANT, such as agreement execution and document signatures. CONSULTANT shall allow enough time in the project schedule for completion of tasks by County.

Upon completion of right-of-way certification, CONSULTANT shall transmit documents to Caltrans Right-of-Way branch as requested, including Notices to Owners, Utility Agreements and relocation plans.

Upon completion of right-of-way certification, CONSULTANT shall prepare utility liability package files for Caltrans and Construction Manager to include: Project Engineer's Certification of Utility Facilities, Right of Way Certification, Notices to Owners, Utility Agreements, Engineer's certifications that owner's plans comply with the needs of the project, Caltrans relocation plan approvals, relocation plans, and no-conflict letters. Said files shall be neatly organized by utility owner.

CONSULTANT shall also provide to County a complete file as described above, but which also includes the property rights documents and prior rights documentation, communication diaries, requests for utility plans, liability claim letters and responses, structures letters, and all other relevant documents. Said files shall be neatly organized by utility owner.

Deliverable: CONSULTANT shall prepare Utility Letters, Report of Investigations, Notice of Owners, Utility Agreements

T9 FINAL DESIGN

9.1 65% PLANS SPECIFICATION & ESTIMATES

9.1.1 65% ROADWAY PLANS

Upon the acceptance of the preliminary roadway geometric plans, CONSULTANT will prepare the 65% roadway plans consisting of Typical Sections and Notes sheets, Construction Detail Sheets, Plan and Profile Sheet in 1"= 40" scale, drainage plans and details, retaining walls and sound walls, staging and traffic handling plans, and signal modifications where required. The Roadway Plan and Profile shall show the existing topography, limits of work, construction notes, right-of-way, utilities, and other general design elements. Centerline, edge of pavement and vertical design shall be provided on the profile.

CONSULTANT will prepare signing and striping plans for the realigned Airport Boulevard. The plans shall show the location of all proposed traffic stripes, markings, traffic intersections, and the proper disposition of all affected existing signs and markings. Any work required to transition the proposed stripes to join with existing stripes on intersection approaches shall be provided. The final signing and striping plans shall be prepared for final plotting on D-sized sheets at 1" = 40', as appropriate.

CONSULTANT shall provide construction staging and traffic handling plans, including general notes, location of work area signs, barricades, and traffic controls devices... The plans shall be prepared to conform to the general requirements of COUNTY, with consideration for the needs of the Contractor's construction operations. Roadway construction will be based on the 2018 Caltrans Standard Specification, and Standard Special Provisions. For the 65% submittal, CONSULTANT will prepare an unedited Standard Special Provisions and cost estimates with preliminary construction quantities for the Roadway PS&E.

- Title Sheet and Local Map
- Typical Section and Notes
- Plan and Profile
- Contour Grading
- Drainage Plans and Details
- Construction Details
- Signing and Striping Plan
- Staging Plans
- Temporary Water Pollution Control Plans

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- Special Provisions

9.1.2 BRIDGE TYPE SELECTION

Details sheets

Deliverable(s): 65% Roadway Plans

Based on the approved roadway geometric design plans for the preferred alternative, CONSULTANT shall prepare preliminary bridge design in 35% design level including performing preliminary structural design and seismic analyses in accordance with CALTRANS bridge design standards. The preliminary structure study shall be summarized in a Bridge Type Selection Report (TSR). In addition to the structure-related discussion, the TSR shall include a summary of engineering studies in various disciplines including falsework (if required), utility relocation, stage construction, constructability-related topics, calculated scour depth, and geotechnical evaluation. The 35% bridge type selection design shall include a bridge general plan, a preliminary foundation plan, detailed cost estimates and other pertinent information needed to determine the proper structure type, CONSULTANT shall submit the TSR to the COUNTY for review and concurrence.

Deliverable(s): Bridge Type Selection

9.1.3 65% UNCHECKED STRUCTURE PLANS

Engineering conclusions for the preferred structure alternative identified in the final bridge type selection report shall be carried into the final design phase. The final bridge design shall be based on CALTRANS-amended AASHTO LRFD Bridge Design Specifications, various CALTRANS Bridge Design and Detail Manuals, and the current version of the Caltrans Seismic Design Criteria (SDC).

- General Plan
- Index to Plans
- Foundation Plan
- Construction Staging Plans
- Bridge Removal
- Abutment Layout
- Abutment Details
- Retaining Walls Plans and Details
- Pier Wall/Bent Layout

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Pier Wall/Bent Details

- Typical Section
- Prestressing Details
- Girder Details
- Structure Approach Slab Details
- Drainage Details
- Aesthetic Details

Deliverable(s): 65% Unchecked Structure Plans

9.1.4 65% QUANTITIES AND ESTIMATE

CONSULTANT will prepare detailed quantity calculations from the 65% roadway and structure plans. The quantities will be based on estimated calculations, using a contingency of 20%. Unit prices will be estimated from Caltrans cost data, other ENGINEER projects recently advertised and other COUNTY or regional project bid results.

Deliverable(s): 65% Quantities and Estimates

9.2 95% PLANS, SPECIFICATION & ESTIMATES

9.2.1 95% ROADWAY PLANS

Upon receipt of comments on the 65% submittal, CONSULTANT will prepare a written response to each comment from the COUNTY and City. Resolution of any difficult comments will be facilitated in a meeting with the COUNTY and City.

CONSULTANT will update the 65% plans and prepare the 95% plan submittal.

Deliverable(s): 95% Roadway including Title Sheet/Typical Sections/Plans/Profile/Superelevation/
Construction Details/Temporary Water Pollution Control/Utility Plans/ESA Fencing/Construction Area
Signs/Stage Construction Plans/Detour Plans/Contour Grading Plans/Erosion Control Plans/Drainage
Plans/Signing and Striping Plans /Electrical Plans/Responses to Comments

9.2.2 BRIDGE DESIGN INDEPENDENT CHECK

The 65% unchecked bridge plans shall be independently checked by a separate licensed bridge engineer, who has not been involved in the project. A separate set of structural design check calculations including quantity calculations shall be prepared in accordance with CALTRANS bridge design practice. The independent checker shall review the plans for completeness, consistency, correctness of references. The bridge designer shall

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revise the design and plans to mitigate checker's review comments. The checker shall perform back check to concur that the comments have been adequately addressed. All comments and responses shall be documented in the project files.

Deliverable(s): Bridge Design and Quantity Independent Check Calculations and Comment / Response

9.2.3 95% STRUCTURE PLANS

Response to all agencies' review comments for the 65% submittal shall be prepared and included in this submittal. CONSULTANT shall prepare CALTRANS Standard Special Provisions (SSP) for structural work at this submittal, CALTRANS standard bridge pay item list for bridge construction and quantity calculations and final bridge cost estimate summary sheets. Item unit prices shall be adjusted using Contract Cost Data Book published by CALTRANS. The plans shall be updated per independent checker's comments.

Deliverable(s): 95% Structure Plans, Edited CALTRANS Standard Special Provisions, Bridge Design Calculations

9.2.4 95% QUANTITIES AND ESTIMATE

CONSULTANT will prepare detailed quantity calculations from the 95% plans. The detailed item list will be updated for any new items added between the 65% and 95% design and will be checked against the independent check quantities. The quantities will now be based on detailed calculations, allowing the contingency to be reduced to 10%. Quantities will be calculated using the roadway design software and checked using hand calculations and the design plans. Structure quantities will be hand calculated and checked by independent hand calculation. Unit prices will be estimated from Caltrans cost data, other CONSULTANT projects recently advertised and other County or regional project bid results.

Deliverable(s): 95% Quantities and Estimates

9.2.5 95% DRAFT SPECIAL PROVISIONS

Project Special Provisions will be based upon the Caltrans 2018 Standard Specifications and Standard Special Provisions. CONSULTANT will prepare a full set of special provisions for the project in Microsoft Word for the 95% submittal, gathering all necessary input from each design discipline.

CONSULTANT will make recommendations for special provisions language regarding utility issues, recommendations for construction windows of time for utility relocation activities, recommendations for inclusion of utility bid items, etc.

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CONSULTANT will work with COUNTY staff to make edits to the as necessary and to make the project requirements clear.

Deliverable(s): 95% Draft Special Provisions/Responses to Comments

9.3 100% PLANS, SPECIFICATIONS & ESTIMATE

9.3.1 100% ROADWAY PLANS (INCLUDING CROSS SECTIONS)

CONSULTANT will prepare 100% Roadway Design plans based on comments received from the COUNTY and Cities on the 95% plans. The plans will be checked for accuracy and completeness and will incorporate any changes to the other roadway plans that may have been updated or modified.

Cross sections will be generated along the alignment at a minimum of 50 ft intervals. Additional cross sections will be generated at points such as the following: begin/end of tapers and unique features.

Deliverable(s): 100% Roadway including Title Sheet / Typical Sections / Plans / Profile / Superelevation / Construction Details / Temporary Water Pollution Control / Utility Plans / ESA Fencing / Construction Area Signs / Stage Construction Plans / Detour Plans / Contour Grading Plans / Erosion Control Plans / Drainage Plans / Signing and Striping Plans / Electrical Plans / Responses to Comments

9.3.2 100% STRUCTURE PLANS

CONSULTANT will prepare the 100% Structure Design plans submittal and coordinate all last comments from the COUNTY or other agency to obtain approval of the cast-in-place bridge alternative. CONSULTANT will provide final plans to the COUNTY.

Deliverable(s): 100% Structure Plans / Supplemental Structure Design and Check Calculations / Responses to Comments for the Cast-In-Place Bridge Alternative.

9.3.3 100% QUANTITIES AND ESTIMATE

CONSULTANT will update the quantities from the 95% submittal. Quantities will be updated in the calculations, the estimate and on the quantity plan sheets for any changes made between the 95% and Final Submittals.

The Engineer's Estimate will be updated for current and projected unit prices at the time of bidding.

Deliverable(s): 100% Quantities and Estimate/Responses to Comments

9.3.4 100% SPECIAL PROVISIONS

CONSULTANT will review the COUNTY comments on the draft special provisions and meet with the COUNTY to discuss any revisions that could have a major impact on construction. The draft special provisions will be updated and revised as many times as necessary to obtain COUNTY approval. The special provisions will be

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prepared and stamped and by a licensed Civil Engineer in the State of California.	CONSULTANT will respond
to each comment made by the COUNTY with a written response explaining how the	he comment was addressed.

Deliverable(s): 100% Special Provisions/Responses to Comments

9.4 FINAL APPROVED SUBMITTAL

Final Roadway Design

CONSULTANT will prepare Final Roadway Design plans based on comments received from the COUNTY and Cities on the 100% plans. The plans will be checked for accuracy and completeness and will incorporate any changes to the other roadway plans that may have been updated or modified.

Upon approval, CONSULTANT will provide signed plans to be incorporated into the bid package.

Deliverable(s): Final Roadway Design/Roadway Cross Sections /Responses to Comments

Final Structure Design

CONSULTANT will prepare the Final Structure Design plans based on comments received from the COUNTY on the 100% plans. The plans will be checked for accuracy and completeness and will incorporate any changes to the other structure plans that may have been updated or modified. Upon approval, CONSULTANT will provide signed plans to be incorporated into the bid package.

Deliverable(s): Final Structure Design Plans / Responses to Comments / Final Quantities and Estimate

Final Engineer's Estimate

CONSULTANT will update the quantities from the 100% submittal. Quantities will be updated in the calculations, the estimate and on the quantity plan sheets for any changes made between the 100% and Final Submittals.

Deliverable(s): Final Bid Item List with Quantities / Final Engineer's Estimate / Responses to Comments

Final Special Provisions

CONSULTANT will prepare the final special provisions and meet with the COUNTY to discuss any revisions that could have a major impact on construction. Upon approval, CONSULTANT will provide signed special provisions to be incorporated into the bid package

Deliverable(s): Final Signed Special Provisions / Responses to Comments

T10 RIGHT-OF-WAY ENGINEERING

10.1 PROPERTY OWNER EXHIBITS

After reconciliation of the right of way base map by County surveyor, CONSULTANT will determine permanent right-of-way and temporary construction easement requirements for each parcel. These needs will be depicted on individual parcel exhibits. These exhibits will include an aerial photograph of the parcel, with the County boundary survey information, owner, APN, address, parcel size and take area all shown. The exhibits will be used by CONSULTANT and COUNTY staff during the appraisal and acquisition discussions with the property owner. CONSULTANT will prepare permanent and temporary right of way base mapping for preparation of plats and legals.

Deliverable(s): CONSULTANT shall prepare Property Owner Exhibits & Right of Way Mapping

10.2 RIGHT-OF-WAY LEGAL DESCRIPTIONS AND PLATS (BY COUNTY)

COUNTY will prepare right of way and temporary construction easement plats and legal exhibits.

CONSULTANT will review, check, and verify the plats and legals to the right of way base mapping.

Deliverable(s): CONSULTANT shall review, check, and verify plats and legal exhibits for right of way, temporary construction easements.

10.3 RIGHT-OF-WAY APPRAISAL AND ACQUISITION (BY COUNTY)

10.4 RFA DOCUMENTATION AND APPROVALS

Construction funding for the project may include Federal or State funds that require the completion of a Request for Authorization (RFA) package to obligate the funds. In the event such funds are obtained, COUNTY will prepare the necessary forms with assistance from CONSULTANT and requests to Caltrans Local Assistance.

Deliverable(s): CONSULTANT shall assist COUNTY with preparation of RFA Approval Forms

T11 ENVIRONMENTAL PERMITTING

The project area is located within a portion of Whitewater River, which would be considered federal and state waters and would require applicable permits for impacts within the channel. As a result, Clean Water Act (CWA) Section 401 and Section 404, and California Fish and Game Code (CFGC) 1602 (et seq.) permits are required. The proposed project would require construction within the channel (construction of temporary work areas and access, construction or expansion of a new bridge); however, the majority of the impact would be temporary with permanent impacts limited to abutments. The tasks associated with obtaining these permits are outlined below and include tasks for preparation of applications and agency coordination.

The assumptions for this task include the following:

- No on- or off-site Habitat Mitigation Monitoring Plan is included in this scope for impacts to aquatic resources One in-person meeting with the resource agencies is assumed.
- It is anticipated that the Project will qualify for a USACE Nationwide Permit due to its limited potential
 impact of permanent losses to jurisdictional waters. If permanent losses to jurisdictional waters exceed
 the limits of applicable Nationwide Permit thresholds, then the Project may require an Individual Permit
 with a 404(b)(1) Alternatives Analysis, which is not included in this scope and cost.
- Preparation of a compensatory mitigation plan for Project impacts to aquatic resources is not included.
- COUNTY/CONSULTANT will provide all necessary documentation other than those documents
 included within this scope to complete permit applications, which may include, but are not limited to, a
 SWPPP, hydrology report, and other relevant documents required for the permit application.
- CONSULTANT will provide cubic yards and linear footage calculations for all cut and fill work proposed within aquatic resources.
- COUNTY will be the Project Applicant for permit applications.
- Permit fees will be paid directly to the permitting agencies by the COUNTY.

11.1 ACOE SECTION 404 NATIONWIDE PERMIT

CONSULTANT will work closely with the design team to try to maintain permanent impacts below a 0.5 acre threshold so that a Clean Water Act Section 404 Nationwide Permit (NWP) can be obtained under NWP 14, Linear Transportation Projects. It will be critical to have early coordination with the state and federal resource agencies to ensure the project stays on schedule and so that the avoidance/minimization/mitigation measures that are developed meet the requirements of each regulatory agencies involved. Based on a preliminary review of the project, it appears that the project could potentially be processed under the USACE Nationwide Permit (NWP) Program. Based on our review, this approach is expected to involve authorization under NWP 14 (Linear Transportation Projects). A NWP 14 may be issued for the proposed project if permanent impacts to waters of the United States are less than 0.5 acre. A written request for authorization under the NWP Program will be prepared for review and submittal to the USACE.

Note that if the project results in permanent impacts to less than 0.1 acre of Corps jurisdiction and does not result in a discharge to a special aquatic site (i.e. wetlands), notification to the USACE as described above will not be required for authorization under NWP 14 and this task will not be necessary. At this time, however, it is

assumed that permanent impacts would be greater than 0.1 acre and less than 0.5 acre. If impacts exceed 0.5 acre and an Individual Permit is required then this would be considered out of scope and a scope and budget will be submitted to the COUNTY and CONSULTANT for approval.

11.2 RWQCB SECTION 401 WATER QUALITY CERTIFICATION

A written request for a Section 401 water quality certification will be prepared and submitted to the RWQCB for review. The request will include a completed application form, detailed project description, description of project impacts, water quality plan identifying project-specific best management practices (provided by the COUNTY or CONSULTANT), CEQA documentation, and a brief description of proposed mitigation.

An application fee must be provided to the RWQCB as part of the permit application. This fee is calculated based upon the extent of project-related impacts in acres and linear feet, along with an annual fee based upon the duration of the project and will be assessed during preparation of the notification. It is assumed that the COUNTY will pay this fee directly.

11.3 CDFW SECTION 1602 STREAMBED ALTERATION AGREEMENT

A Lake or Streambed Alteration notification will be prepared and submitted to CDFW for review. The request will include a completed notification form, detailed project description, description of project impacts, CEQA documentation, and a brief description of proposed mitigation.

A processing fee must be provided to CDFW with the notification. This fee is based on the cost of the project and will be assessed during preparation of the notification. It is assumed that the COUNTY will pay this fee directly.

11.4 COORDINATION AND PROCESSING

The resource agency notifications will be coordinated with USACE, RWQCB, and CDFW throughout processing to ensure that any potential issues are made known to the project team and resolved at the earliest possible opportunity. Coordination may include telephone, e-mail, or written correspondence. If additional coordination efforts beyond what can be reasonably expected are required due to unforeseen complications related to permitting activities or difficulties in locating appropriate mitigation sites, if required, then this will be communicated to the County and a scope will be provided for approval for this additional effort.

PHASE III - CONSTRUCTION BIDGING AND AWARD SUPPORTS

T12 BID AND AWARD SUPPORT

12.1 ATTEND A PRE-BID MEETING

CONSULTANT shall remain available to attend a pre-bid meeting to be scheduled in advance of the bid opening date.

12.2 BIDDING INTERPRETATIONS, BID REVIEW AND ANALYSIS

CONSULTANT shall answer bidders' questions regarding the contract bid documents, and prepare bid addenda if required. CONSULTANT shall perform bid review and analysis, if required.

PHASE IV - DESIGN SERVICES DURING CONSTRUCTION

T13 CONSTRUCTION SUPPORT

Following award of the contract, CONSULTANT will provide COUNTY with construction support services.

13.1 ATTEND A PRE-CONSTRUCTION MEETING AND SITE MEETINGS

CONSULTANT shall attend a pre-construction meeting as directed by COUNTY.CONSULTANT shall perform site visits during the construction as requested by COUNTY.

13.2 ADMINISTRATION, RESPOND CONTRACTOR'S RFI &REVIEW SHOP DRAWINGS SUBMITTALS

CONSULTANT shall review shop drawings and submittals for conformance with the contract plans and specifications, and make recommendations for acceptance, denial or re-submittal within reasonable time of receipt.

CONSULTANT shall provide response to contractor's requests for information (RFI's) about the contract plans and specifications forwarded to the design team by COUNTY within reasonable time of receipt.

13.3 PREPARE CONSTRUCTION CHANGE ORDERS

Upon written authorization from COUNTY, CONSULTANT shall provide engineering design services for revisions to construction documents resulting from changed field or unforeseen conditions or other change order work required due to actions of COUNTY. Subsequent change order documentation and processing shall be prepared by COUNTY's Resident Engineer.

13.4 PREPARE AS-BUILT PLANS

Following the completion and acceptance of the project, CONSULTANT shall furnish COUNTY with a complete set of revised contract drawings showing as-built conditions. Revisions shall be solely based on as-built redlined information provided by COUNTY. The as-built plans shall be delivered to COUNTY within one month of receipt of redlined plans.

13.5 ENVIRONMENTAL CONSTRUCTION SUPPORT

CONSULTANT will provide all required environmental support prior to and during construction. It is anticipated that environmental construction support will be required for two construction seasons. It is assumed that the COUNTY will contract separately for materials and installation of materials required bird exclusion and bat exclusion. It is assumed that additional environmental construction support may be necessary depending upon the permit conditions. No revegetation efforts within the disturbed areas are included in this task.

13.5.1 REGULATORY AGENCY COORDINATION

Pursuant to the 1602, 401, and 404 permit requirements, CONSULTANT will coordinate with each regulatory agency prior to construction to ensure that construction starts on-time and without delay. Coordination with regulatory agencies will continue throughout construction as needed.

Deliverable(s): Agency Notification Letters.

13.5.2 PRECONSTRUCTION BIOLOGICAL SURVEYS AND SUPPORT

CONSULTANTS's qualified project biologists shall conduct special status plant, wildlife, nesting bird, and burrowing owl pre-construction clearance surveys. Surveys will be consistent with agency approved survey methods and seasons. The surveys for special status plants will take place during the blooming season and nesting bird surveys would take place during the appropriate nesting season. Should any sensitive species be found during preconstruction survey efforts, CONSULTANT will coordinate with the appropriate agencies. A report of all findings during surveys will be submitted to the COUNTY for review. This task also includes biological support during installation of any animal exclusion measures including bat exclusion and/or swallow exclusions.

Deliverable(s): Biological Survey Reports.

13.5.3 ENVIRONMENTAL AWARENESS TRAININGS

CONSULTANT's qualified project biologist shall conduct environmental resource trainings prior to and during construction to inform project proponents and personnel of pertinent commitments outlined in the ECR relating to sensitive biological resources. Trainings will include specific project information for each resource and will be given in accordance with the appropriate agency standards. Further, CONSULTANT will develop and present cultural resource identification and sensitivity training to all construction workers so that all on-site workers are aware of the appropriate procedures and chain-of-command should cultural resources be discovered during construction.

13.5.4 ENVIRONMENTAL COMMITMENT RECORDS (ECR) AND MITIGATION/MONITORING/REPORTING

PLAN (MMRP), AND COMPLIANCE MONITORING

Deliverable(s): Environmental Awareness Training Materials

A qualified biologist will implement and/or ensure compliance with measures of the project's Environmental Commitment Record (ECR) and Mitigation Monitoring and Reporting Plan (MMRP). The ECR and MMRP are a compilation of agency permit and Environmental Document commitments that the COUNTY is obligated to implement in order to receive project approval. A qualified biologist shall update the ECR and MMRP to include all agency and environmental document commitments which will be signed off as each measure is complied with. Throughout construction, the project biologist will monitor the site to ensure project proponents are complying with all ECR and MMRP measures and will coordinate with the Resident Engineer to remediate any potential incompliance. At project completion, the bound and signed ECR and MMRP documents will be provided to the COUNTY as a record of project compliance. It is anticipated that compliance monitoring would occur during initial ESA fencing installation and initial ground disturbing activities. Periodic monitoring for sensitive species will be conducted for the duration of ground disturbing work. Should a protected wildlife species or cultural resource be found during these monitoring efforts, CONSULTANT will coordinate with the Resident Engineer and appropriate agencies. It is assumed that 25 days of biological monitoring will be required.

Deliverable(s): Completed ECR and MMRP

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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 contract and with the following additional Performance Requirements. Time is of the essence in this contract.

ARTICLE BII • PERFORMANCE REQUIREMENTS

A. PHASES

This contract is divided into the following [4] milestones/phases:

- Preliminary Engineering and Environmental
- II. Plans, Specifications & Estimates
- III. Bid Support
- IV. Construction Support

B. SCHEDULE OF SERVICES • GANTT CHART

The chart provided below graphically illustrates the sequencing and completion time for the project.

Project/Task	Task	Task		2011		100	202		144			J					022									023								2024							025	
	Start	Finish	J	F	M A	M	J	J /	S	0	N	D.	JF	M	Α	М	IJ	A	8 0	N	D	JF	M	A	MJ	J	A E	0	N) J	F	M A	M	J	IA	S	O N	D	JF	M	A I	N J
Project Start	Feb 2021											T		Γ		T	Ι	П				T							П	Τ								П			T	
PA/ED (Env Clearance)	Feb 2021	Jul 2022										İ						П				Ī																				
PS&E	Aug 2021	May 2023																												I												
Environmental Permitting	Aug 2022	May 2023										Ī					T					İ								T												
Utility Coordination	Aug 2021	Apr 2023			T				ľ			İ										"	dent																			
Right of Way Acquisition	Aug 2021	May 2023										İ										İ																				
Fed Authorization/E-76	Jun 2023	Jul 2023												1			T													T	П							П	T			
Advertise & Award Project	Aug 2023	Nov 2023										1													1		Charles .	~	5													
Construction	Dec 2023	May 2025						1				1		T			T	П				Ť			T					1	7									_		
Project Complete		Jun 2025			T							1		T			T	П	T			Ť			T			T				1		1								

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 AGENCIF. So offer comments prior to final submission.

D. TIME EXTENSIONS

1. Any delay in providing services required by this contract occasioned by causes beyond the control and not

due to the fault or negligence of CONSULTANT, 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.

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

E. FINAL ACCEPTANCE

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

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. COUNTY will reimburse CONSULTANT for actual costs (including labor costs, overhead, and other direct costs) incurred by CONSULTANT in performance of the work, exclusive of any fixed fee. A prorata portion of CONSULTANT's fixed fee shall be included in the progress payments. Actual costs shall not exceed the total estimated costs without prior written agreement between COUNTY and CONSULTANT.

ARTICLE CII • ELEMENTS OF COMPENSATION

Compensation for the services provided will be comprised of the following elements: DIRECT LABOR COSTS, FEES, 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. All Salary rates shall be in effect for three years following the effective date of the Agreement. Thereafter, CONSULTANT may request adjustments to individual rates on an annual basis. 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 ADDITIVES[91.89] %

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 COSTS[73.76] %

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.

(sum of Payroll Additives and Overhead Costs)

B. FIXED FEE

- 1. The Total Fixed Fee payable to the CONSULTANT is \$[140,521.72] (PRIME CONSULTANT Profit)
- 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

Additional Direct Costs, 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 Additional Direct Costs are as follows:

Item	Rate	Unit	Budget
Travel/Mileage	\$[0.58]	Mile	\$6,767.00
Traffic Counts		Actual Cost	\$0
Printing, Plotting & Copies		Actual Cost	\$550.00
Exhibits, Plotting & Mounting		Actual Cost	\$0

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

A. PREMIUM OVERTIME

Direct Salary Rates 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

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

[example would be to add a % multiplier to the rates provided in the fee calculations]

Principal in Charge	\$98	hour
Project Manager	\$83	hour
Lead Roadway Engineer	\$62	hour
Lead Structures Engineer	\$76	hour
Lead Environmental Planner	\$83	hour
QA/QC Engineer	\$98	hour
Support Engineer	\$75	hour
CADD Operator	\$64	hour
Environmental Specialist	\$52	hour
Administrative Support	N/A	hour

The above rates are for CONSULTANT only. All rates for subconsultants to CONSULTANT will be in accordance with the subconsultants approved cost proposal.

C. MINIMUM RATES

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

The Federal minimum wage rates for this project as determined by the United States Secretary of Labor aravailable from the U.S Department of Labor, Employment Standards Administration, Wage and Hour Division.

If there is a difference between the minimum wage rates determined by the Secretary of Labor and the general

prevailing wage rates determined by the Director of the California Department of Industrial Relations for similar classifications of labor, the CONSULTANT and subcontractors shall pay not less than the higher wage rate. The Department will not accept lower State wage rates determinations. This includes "helper" (or other classifications based on hours of experience) or any other classification not appearing in the Federal wage determinations. Where Federal wage determinations do not contain the State wage rate determination otherwise available for use by the CONSULTANT and subcontractors, the CONSULTANT and subcontractors shall pay not less than the Federal minimum wage rate which most closely approximates the duties of the employees in question.

ARTICLE CIV • INVOICING

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

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

I hereby certify that the hours and salary rates charged in this invoice are the actual hours and rates worked and paid to the employees listed.

ARTICLE CV • PAYMENT

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

ARTICLE CVI • COST PROPOSAL

The following cost proposal worksheets reflect the negotiated targeted contract amounts. The cost proposal will serve as a guideline and reference document during the execution of this contract. The total amount of the contract is not to exceed [\$1,961,701.59]. In the event that the project replaces the existing bridge with a new 36ft-38ft wide bridge, the total amount of the contract is not to exceed [\$1,471,276,19]. Reimbursement is to be made at actual

COUNTY's Contract Administrator, and with prior written authorization by the COUNTY's Contract Administrator in the form of an Administrative Budget Modification as required by the COUNTY's Consulting Services Manual. Contingency budgets are not allowed for services that are paid in whole or in part with federal-aid funding.

cost plus fixed fee, however, billing shall not exceed the rates provided in Section B above. In the event a

contingency budget is provided, COUNTY shall hold such contingency in reserve for unforeseen Extra Work that

may arise during the performance of this agreement. Contingency budget shall only be used at the discretion of the

Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020) Fee Proposal Summary

March 8, 2021

COMPANIES		PHASEI	ŀ	PHASE II	PHASE III	PHASE IV	TOTAL
Dokken Engineering Prime	\$	547,236.54	\$	840,957.00	\$ 33,183.94	\$ 164,341.72	\$ 1,585,719.20
Earth Mechanics, Inc. Geotechnical	\$	17,374.45	\$	132,247.48	\$ 5,733.75	\$ 21,195.41	\$ 176,551.09
Fehr & Peers Traffic Assessment	\$	20,664.39					\$ 20,664.39
WRECO Hydraulics	\$	94,928.92	\$	15,268.35			\$ 110,197.28
Cogstone Paletological Reporting	\$	9,378.01					\$ 9,378.01
Bargas Environmental Consulting Biological Resources	\$	59,191.62					\$ 59,191.62
	H						
TOTAL		748,773.95	\$	988,472.84	\$ 38,917.68	\$ 185,537,12	\$ 1,961,701.59

Phase I Preliminary Engineering & Environmental

Phase II Plans, Specs & Estimates

Phase III Bid Support

Phase IV Construction Support

FEE PROPOSAL WORKSHEET		
COMPANY:	SCOPE OF WORK	PHASE
Dokken Engineering	Project Summary	All Phases
PROJECT:		DATE:
Replacement of Airport Boulevard Bridge over Whitewa	ter River (Br. No. 56C-0020)	March 8, 2021

PERSONNEL	POSITION	HOURS		RATE	AWOUNT
Richard Liptak	Principal In Charge	18	@	\$95.00	\$1,710.00
Juann Ramos	Project Manager	604	@	\$80.00	\$48,320.00
Kristopher Kofoed	Lead Roadway Engineer	989	@	\$60.00	\$59,340.00
Martin Maechler	Lead Structures Engineer	650	@	\$73.00	\$47,450.00
Namat Hosseinion	Lead Environmental Planner	181	@	\$80.00	\$14,480.00
John Klemunes	QA/QC Engineer	60	@	\$95.00	\$5,700.0
Staff	Senior Engineer	524	@	\$72.00	\$37,728.0
Staff	Associate Engineer	1,597	@	\$57.00	\$91,029.0
Staff	Assistant Engineer	2,850	@	\$39.00	\$111,150.0
Staff	Senior CAD	512	@	\$62.00	\$31,744.0
Staff	Engineering Technician	436	@	\$24.00	\$10,464.0
Staff	Senior Environmental Planner	172	@	\$50.00	\$8,600.0
Staff	Associate Environmental Planner	496	@	\$45.00	\$22,320.0
Staff	Environmental Planner	750	@	\$34.00	\$25,500.0

		TOTAL HOURS: 9,83	9 TOTAL AMOUNT:	\$515,535.00
MULTIPLIERS				
ESCALATION @	3.00%	(Rates Vary by Phase)		\$13,438.17
OVERHEAD @	73.76%	(of Direct Labor + Escalation)		\$390,170.61
PAYROLL ADDITIVES @	91.89%	(of Direct Labor + Escalation)		\$486,073.45
PROFIT (FIXED FEE)	10.0%			\$140,521.72

OTHER DIRECT COSTS

· · · Billed at Actual Cost · · ·

NEW NEW NEW NEW NEW NEW NEW NEW NEW NEW	QUANTITY	UNIT		UNIT COST	AMOUNT
Cultural Resource Inventory	1	LS	@	\$500.00	\$500.00
Visual Renderings	3	LS	@	\$1,000.00	\$3,000.00
Newspaper Ad	1	LS	@	\$7,000.00	\$7,000.00
Notice of Determination Filing Fee	1	LS	@	\$2,480.25	\$2,480.25
Potholing	1	LS	@	\$20,000.00	\$20,000.00
Bat Surveys	1	LS	@	\$7,000.00	\$7,000.00

SUB CONSULTANT SERVICES

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL.
Earth Mechanics, Inc.	\$40,890.00	\$90,551.09	\$45,110.00	\$176,551.09
Fehr & Peers	\$6,814.60	\$13,849.79		\$20,664.39
WRECO	\$33,692.20	\$56,855.08	\$19,650.00	\$110,197.28
Cogstone	\$3,700.96	\$5,272.05	\$405.00	\$9,378.01
Bargas Environmental Consulting	\$17,839.12	\$31,919.00	\$9,433.50	\$59,191.62

TOTAL SUBCONSULTANT SERVICES:

TOTAL MULTIPLIERS:

TOTAL ODC'S:

\$375,982.39

\$39,980.25

\$1,030,203.95

GRAND TOTAL \$1,961,701.59

FEE PROPOSAL WORKSHEET		
COMPANY;	SCOPE OF WORK	PHASE
Dokken Engineering	Preliminary Engineering & Environmental	Phase I
PROJECT.		DATE
Replacement of Airport Boulevard Bridge over Whit	ewater River (Br. No. 56C-0020)	March 8, 2021

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Richard Liptak	Principal In Charge	6	@	\$95.00	\$570.00
Juann Ramos	Project Manager	184	@	\$80.00	\$14,720.00
Kristopher Kofoed	Lead Roadway Engineer	309	@	\$60.00	\$18,540.00
Martin Maechler	Lead Structures Engineer	158	@	\$73.00	\$11,534.00
Namat Hosseinion	Lead Environmental Planner	114	@	\$80.00	\$9,120.00
John Klemunes	QA/QC Engineer	20	@	\$95.00	\$1,900.00
Staff	Senior Engineer	150	@	\$72.00	\$10,800.0
Staff	Associate Engineer	479	@	\$57.00	\$27,303.0
Staff	Assistant Engineer	954	@	\$39.00	\$37,206.0
Staff	Senior CAD	44	@	\$62.00	\$2,728.0
Staff	Engineering Technician	60	@	\$24.00	\$1,440.0
Staff	Senior Environmental Planner	120	@	\$50.00	\$6,000.0
Staff	Associate Environmental Planner	346	@	\$45.00	\$15,570.0
Staff	Environmental Planner	522	@	\$34.00	\$17,748.00

		TOTAL HOURS:	3,466	TOTAL AMOUNT:	\$175,179.00
MULTIPLIERS					
ESCALATION @	3.00%	(of Direct Labor)			\$5,255.37
OVERHEAD @	72 700/	(of Discot Labor L Foodbiller)			\$122 A99 2A

 OVERHEAD @
 73.76%
 (of Direct Labor + Escalation)
 \$133,088.39

 PAYROLL ADDITIVES @
 91.89%
 (of Direct Labor + Escalation)
 \$165,801.14

 PROFIT (FIXED FEE)
 10.0%
 \$47,932.39

 TOTAL MULTIPLIERS:
 \$352,077.29

OTHER DIRECT COSTS ... Billed at Actual Cost ...

TEM TO THE RESERVE OF THE PARTY	QUANTITY	UNIT		UNIT COST	AMOUNT
Cultural Resource Inventory	1	LS	@	\$500.00	\$500.00
Visual Renderings	3	LS	@	\$1,000.00	\$3,000.00
Newspaper Ad	1	LS	@	\$7,000.00	\$7,000.00
Notice of Determination Filing Fee	1	LS	@	\$2,480.25	\$2,480.25
Potholing		LS		\$20,000.00	
Bat Surveys	1	LS	@	\$7,000.00	\$7,000.00

TOTAL ODC'S: \$19,980.25

SUB CONSULTANT SERVICES

	LASOR	MULTIPLIERS	ODC's	TOTAL
Earth Mechanics, Inc.	\$5,372.00	\$12,002.45		\$17,374.45
Fehr & Peers	\$6,814.60	\$13,849.79		\$20,664.39
WRECO	\$28,010.92	\$47,268.00	\$19,650.00	\$94,928.92
Cogstone	\$3,700.96	\$5,272.05	\$405.00	\$9,378.01
Bargas Environmental Consulting	\$17,839.12	\$31,919.00	\$9,433.50	\$59,191.62

TOTAL SUBCONSULTANT SERVICES: \$201,537.40

TOTAL \$748,773.95

FEE PROPOSAL WORKSHEET		
COMPANY:	SCOPE OF WORK	PHASE:
Dokken Engineering	Plans, Specs & Estimates	Phase II
PROJECT		DATE:
Replacement of Airport Boulevard Bridge over Whitew	ater River (Br. No. 56C-0020)	March 8, 2021

PERSONNEL		HOURS		RATE	AMOUNT
Richard Liptak	Principal In Charge	12	@	\$95.00	\$1,140.00
Juann Ramos	Project Manager	368	@	\$80.00	\$29,440.00
Kristopher Kofoed	Lead Roadway Engineer	550	@	\$60.00	\$33,000.00
Martin Maechler	Lead Structures Engineer	390	@	\$73.00	\$28,470.00
Namat Hosseinion	Lead Environmental Planner	22	@	\$80.00	\$1,760.00
John Klemunes	QA/QC Engineer	40	@	\$95.00	\$3,800.00
Staff	Senior Engineer	316	@	\$72.00	\$22,752.00
Staff	Associate Engineer	1,008	@	\$57.00	\$57,456.00
Staff	Assistant Engineer	1,566	@	\$39.00	\$61,074.00
Staff	Senior CAD	322	@	\$62.00	\$19,964.00
Staff	Engineering Technician	266	@	\$24.00	\$6,384.00
Staff	Senior Environmental Planner	18	@	\$50.00	\$900.00
Staff	Associate Environmental Planner	64	@	\$45.00	\$2,880.00
Staff	Environmental Planner	110	@	\$34.00	\$3,740.00

	TOTAL HOURS:	5,052	TOTAL AMOUNT	\$272,760.00
MULTIPLIERS				

ESCALATION @	3.00%	(of Direct Labor)		\$8,182.80
OVERHEAD @	73.76%	(of Direct Labor + Escalation)		\$207,223.41
PAYROLL ADDITIVES @	91.89%	(of Direct Labor + Escalation)		\$258,158.34
PROFIT (FIXED FEE)	10.0%			\$74,632.45
			TOTAL MULTIPLIERS:	\$548,197.00

OTHER DIRECT COSTS ... Billed at Actual Cost ...

TEM (TEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Cultural Resource Inventory		LS	\$500.00)
Visual Renderings		LS	\$1,000.00	
Newspaper Ad		LS	\$7,000.00	
Notice of Determination Filing Fee		LS	\$2,480.25	
Potholing	1	LS	@ \$20,000.00	\$20,000.00
Bat Surveys		LS	\$7,000.00	

TOTAL ODC'S: \$20,000.00

SUB CONSULTANT SERVICES

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
Earth Mechanics, Inc.	\$26,942.00	\$60,195.48	\$45,110.00	\$132,247.48
Fehr & Peers				
WRECO	\$5,681.28	\$9,587.07		\$15,268.35
Cogstone	, , , , , , , , , , , , , , , , , , , ,			
Bargas Environmental Consulting				
<u>-</u>				

TOTAL SUBCONSULTANT SERVICES: \$147,515.84

TOTAL \$988,472.84

FEE PROPOSAL WORKSHEET		
COMPANY;	SCOPE OF WORK:	PHASE:
Dokken Engineering	Bid Support	Phase III
PROJECT		DATE:
Replacement of Airport Boulevard Bridge over White	ewater River (Br. No. 56C-0020)	March 8, 2021

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Richard Liptak	Principal In Charge			\$95.00	
Juann Ramos	Project Manager	8	@	\$80.00	\$640.00
Kristopher Kofoed	Lead Roadway Engineer	34	@	\$60.00	\$2,040.00
Martin Maechler	Lead Structures Engineer	26	@	\$73.00	\$1,898.00
Namat Hosseinion	Lead Environmental Planner	10	@	\$80.00	\$800.00
John Klemunes	QA/QC Engineer			\$95.00	
Staff	Senior Engineer	6	@	\$72.00	\$432.00
Staff	Associate Engineer	20	@	\$57.00	\$1,140.00
Staff	Assistant Engineer	60	@	\$39.00	\$2,340.00
Staff	Senior CAD	30	@	\$62.00	\$1,860.00
Staff	Engineering Technician	2	@	\$24.00	\$48.00
Staff	Senior Environmental Planner			\$50.00	
Staff	Associate Environmental Planner	2	@	\$45.00	\$90.00
Staff	Environmental Planner	2	@	\$34.00	\$68.00

TOTAL HOURS: 200 TOTAL AMOUNT: \$11,356.00

MULTIPLIERS

ESCALATION @		(of Direct Labor)		
OVERHEAD @	73.76%	(of Direct Labor + Escalation)		\$8,376.19
PAYROLL ADDITIVES @	91.89%	(of Direct Labor + Escalation)		\$10,435.03
PROFIT (FIXED FEE)	10.0%			\$3,016.72
			TOTAL MULTIPLIERS:	\$21,827.94

OTHER DIRECT COSTS ... Billed at Actual Cost ...

将E級	QUANTITY	UMIT	UNIT COST	AMOUNT
Cultural Resource Inventory		LS	\$500.00	
Visual Renderings		LS	\$1,000.00	
Newspaper Ad		LS	\$7,000.00	
Notice of Determination Filing Fee		LS	\$2,480.25	
Potholing		LS	\$20,000.00	
Bat Surveys		LS	\$7,000.00	

TOTAL ODC'S:

SUB	C	1000	- 14	TANT	SER	VICES

SUB C JN' JLTANT SERVICES				
COMPANY	LABOR	BULTIPLIERS	ODC's	TOTAL
Eain lechanics, Inc.	\$1,826.00	\$3,907.75		\$5,733.75
FF. ' is Peers				
~ 2CO				
gstone				
Bargas Environmental Consulting				

TOTAL SUBCONSULTANT SERVICES:

\$5,733.75

TOTAL \$38,917.68

FEE PROPOSAL WORKSHEET		
COMPANY	SCOPE OF WORK:	PHASE:
Dokken Engineering	Construction Support	Phase IV
PROJECTI		DATE:
Replacement of Airport Boulevard Bridge over Whitew	ater River (Br. No. 56C-0020)	March 8, 2021

	POSITION	HOURS		RATE	AMOUNT
Richard Liptak	Principal In Charge			\$95.00	
Juann Ramos	Project Manager	44	@	\$80.00	\$3,520.00
Kristopher Kofoed	Lead Roadway Engineer	96	@	\$60.00	\$5,760.00
Martin Maechler	Lead Structures Engineer	76	@	\$73.00	\$5,548.00
Namat Hosseinion	Lead Environmental Planner	35	@	\$80.00	\$2,800.00
John Klemunes	QA/QC Engineer			\$95.00	
Staff	Senior Engineer	52	@	\$72.00	\$3,744.00
Staff	Associate Engineer	90	@	\$57.00	\$5,130.00
Staff	Assistant Engineer	270	@	\$39.00	\$10,530.00
Staff	Senior CAD	116	@	\$62.00	\$7,192.00
Staff	Engineering Technician	108	@	\$24.00	\$2,592.00
Staff	Senior Environmental Planner	34	@	\$50.00	\$1,700.00
Staff	Associate Environmental Planner	84	@	\$45.00	\$3,780.00
Staff	Environmental Planner	116	@	\$34.00	\$3,944.00

TOTAL HOURS: 1,121 TOTAL AMOUNT: \$56,240.00

MULTIPLIERS

ESCALATION @		(of Direct Labor)	
OVERHEAD @	73.76%	(of Direct Labor + Escalation)	\$41,482.62
PAYROLL ADDITIVES @	91.89%	(of Direct Labor + Escalation)	\$51,678.94
PROFIT (FIXED FEE)	10.0%		\$14,940.16

TOTAL MULTIPLIERS: \$108,101.72

OTHER DIRECT COSTS

•••	Billed	at	Actual	Cost	•••

	Dilica at Actual Cost				
	W	GUANTITY	UNIT	UNIT COST	AMOUNT
Cultural Resource Inventory			LS	\$500.00	
Visual Renderings			LS	\$1,000.00	
Newspaper Ad			LS	\$7,000.00	
Notice of Determination Filing Fee			LS	\$2,480.25	
Potholing			LS	\$20,000.00	
Bat Surveys			LS	\$7,000.00	

TOTAL ODC'S:

SUB CONSULTANT SERVICES

COMPANY	LABSR	MULTIPLIERS	ODC's	TOTAL
Earth Mechanics, Inc.	\$6,750.00	\$14,445.41		\$21,195.41
Fehr & Peers				
WRECO				
Cogstone				
Bargas Environmental Consulting				

TOTAL SUBCONSULTANT SERVICES: \$21,195.41

TOTAL \$185,537.12

MANHOUR WORKSHEET				
COMPANY	SCOPE OF WORK	PHASE		
Dokken Engineering	Manhour Summary	All Phases		
PROJECT	DATE			
Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)		March 8, 2021		

TASK	/4	green and		S. December 1.	Service of	Street of	A CLEANING	A STATE OF THE STA	Septe de la constitución de la c	et et et		Market Services	general special	ato Louis	HOURS	(Top a Bottom) HOURS
	\$277.60	\$233.77	\$175 33	\$213.32	\$233,77	\$277.60	\$210.39	\$166.56	\$113.96	\$181 17	\$70.13	\$146.11	\$131,50	\$99.35		
PHASE TOTALS	18	604	989	650	181	60	524	1,597	2,850	512	436	172	496	750	9,839	9,839
PRASEI	6	184	309	158	114	20	150	479	954	44	60	120	346	522	3,466	3,466
PHASEII	12	368	550	390	22	40	316	1,008	1,566	322	266	18	64	110	5,052	5,052
PHASEIII		8	34	26	10		6	20	60	30	2		2	2	200	200
PHASE IV		44	96	76	35		52	90	270	116	108	34	84	116	1,121	1,121

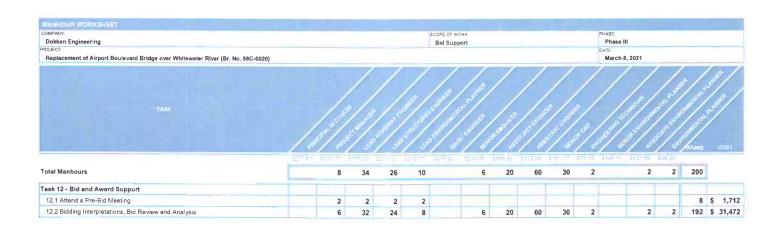
TASK	HOURS
PHASE TOTALS	
PHASE	
PHARE I	
PHASE III	
PHASE IV	

COMPANY: Dokken Engineering					1	OPE OF WOR						PHASE				
PROJECT PROJECT		_				Plans, Spec	s & Estin	nates				Phase II				
Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)												March 8	2021			
TAUK	/ spile			\$ 1 S		A CONTRACTOR										COST
								\$1005c	\$ 98	119117			SUITE	\$ 6		-11
Total Manhours	12	368	550	390	22	40	316	1,008	1,566	322	266	18	64	110	5,052	
Task 5 - Project Management																
5.1 Project Coordination and Project Team Meetings	12	160	80	18	6								18		294	\$ 62,37
5.2 Monthly Progress Reports		30													30	\$ 7,01
5.3 Progress Schedule		16													16	
5.4 Quality Control						40										\$ 11,10
5.5 Cost Accounting		28													28	-
5.6 Permits		16													16	
Task 6 - Geotechnical Design Report				-							-					
6.1 Geotechnical Field Investigations			4						6						10	\$ 1,38
6.2 Laboratory Testing			4												4	_
6 3 Geotechnical Engineering Analysis		2	8						-						10	
6.4 Geotechnical Report	-	2	8	6											16	
Task 7 - Hydraulics & Storm Water		-	-	-												0,10
7 1 Drainage Report		2	8	-			20	80	160		16				286	\$ 38,75
7.2 Bridge Design Hydraulic Study Report		2	8				16	40	100		8					\$ 23,85
7.3 NPDES Date From		2	8			-	8	20	40							\$ 11,44
7.4 Storm Water Pollution Prevention Plan (SWPPP)		4	8				20	30	70		32				_	\$ 21,76
Task 8 - Utility Coordination			Ů	-			20	30	10		J.			-	104	₩ Z1,10
8.1 Utility Coordination		8	60			-	10	40	110						228	\$ 33,69
Task 9 - Final Design		0	00	_			10	40	110						220	\$ 33,03
9.1 65% Plans, Specification & Estimates				_	100											
9 1 1 65% Roadway Plans		12	60	-		_	40	100	240					-	452	\$ 65,74
9.1.2 Bridge Type Selection	10	4	8	76		-	40	20	240	8	16			-		\$ 24,45
9.1.3 65% Unchecked Structure Plans		2	8	80		_		20	200	110	110					\$ 69,37
9 1 4 65% Quantities and Estimate		6	32	20	-		8	40	60	12	110	_		_		\$ 28.63
9.2 95% Plans Specification & Estimates	1	U	JŁ	20			0	40	90	12					1/0	w 20,03
9.2.1.95% Roadway Plans		6	40				30	80	160	_				_	316	\$ 46,28
9.2.2 Bridge Design Independent Check		4	40	40			30	220	40							\$ 51,37
9.2 3 95% Structure Plans		4	4	40				20	40	80	60					\$ 36,76
9.2.4 95% Quantities and Estimate		4	12	32			16	72	60	18	00					\$ 35,32
9.2.3 95% Draft Special Provisions		4	18	12			60	36	60	10						\$ 25,27
9.3 100% Plans, Specifications & Estimate		-	10	12			00	30							130	φ £3,21
9.3.1 100% Roadway Plans (Including Cross Sections)		6	40				12	50	120					-	220	\$ 32,94
9 3.2 100% Structure Plans	-	4	6	20			12	12	20	40	24			_		\$ 19,46

COMPANY					Sc	OPE OF WORK	(PHASE				
Dokken Engineering					-	Plans Spec		ates			Phase II				
ROJECT						i idilo, opec	TO OF ECONO				DATE		-		
Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-00	(20)										March 8,	2021			
	/#													STATE OF THE PARTY	ST. CONT.
9.3.3 100% Quantities and Estimate		4	18	18				30	40	30				140	\$ 22,9
9.3.4 100% Special Provisions		4	12	16			40	24						96	\$ 18,8
9.4 Final Approved Submittal		6	24	12			20	24	60	24				170	\$ 27,5
Fask 10 - Right of Way Engineering															
10,1 Property Owner Exhibits		4	16					30	40					90	\$ 13,2
10.2 Right of Wey Legal Descriptions and Plats		4	16				-	16						36	\$ 6,4
10.3 Right of Way Appraisal and Acquisition (By County)		4	12					16						32	\$ 5,7
10.4 RFA Documentation and Approvals		6	24				16	8						54	\$ 10,3
Fask 11 - Environmental Permitting															
11.1 ACOE Section 404 Nationwide Permit		2		1	4						4	12	32	54	\$ 6,7
11.2 RWQCB Section 401 Water Quality Certification		2	- 10		4						4	12	32	54	\$ 6,7
ALCOHOLING II ACCOUNT AND A COUNTY AND A COU		2	_		4						4	12	32	54	\$ 6.7
11.3 CDFW Section 1602 Streambed Alteration Agreement		2			4						- "	1.6	JE	249	φ 0,1

MARKOUR WORKSHIET					15	COPE OF WORK					_	PHASE				
Dokken Engineering						Preliminary		g & Envir	onmental			Phase I				
PROJECT Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)												March 8,	2021			
TANK	1		Service of the servic	STEE STEE	gelder School of the second	A TO SHEET		S. W. E. S. G.	SION SION	A SECOND		J. 40 11		SOE 35	MONHES	COST
Total Manhours	6	184	309	158	114	20	150	479	954	44	60	120	346	522	3,466	
Task 1 - Project Management																
1.1 Project Coordination and Project Team Meetings	6	80	40	24	30								40		220	\$ 44,77
1.2 Monthly Progress Reports		16													16	\$ 3,74
1.3 Progress Schedule		12													12	\$ 2,80
1.4 Quality Control						20									20	\$ 5,55
1.5 Cost Accounting		12	1				=				-				12	\$ 2,80
Task 2 - Research and Data Gathering																
2.1 Collect and Review Existing Information			6	12	8			8	24						58	\$ 9,55
2.2 Conduct Field Review		2	8		8		6	12	6		7.5		8		50	\$ 8,73
Task 3 - Preliminary Engineering															-	-
3.1 Traffic Studies		2	8					8			-				18	\$ 3,20
3.2 Preliminary Utility Research and Utility Base Map		2	16					20	40				-			\$ 11,16
3.3 Permits		2	8					8	16				16		50	
3.4 Surveying and Right of Way Mapping (By County)	1	2	8					4	10						24	
3.5 Preliminary Geotechnical		2	12	10			8								32	
3.6 Right of Way Requirement Map		2	16	- 10				24	40		12				94	\$ 12,67
3.7 Preliminary Roadway and Geometric Plans		2	24				8	20	110	6	12				111	\$ 24,15
3.8 Stage Construction Design		2	24	-			-	20	40		1.5				-	\$ 12,56
3 9 Structure Advance Planning Study	-	2	8	60				40	90	32	20					\$ 38,78
3.10 Preliminary Bridge Design Hydraulic Study (BDHS) Report		2	2	2			4	24	- 00						34	
3.11 Plan of Action (POA)		-	-	-			7									
3 11 1 Geotech Scour Analysis		2	4	4			8								18	\$ 3,70
3.11.2 Structure Scour Analysis		2	4	40			-	40	20	6					1	\$ 19,73
3.11.3 Scour Plan of Action (POA)		2	8	40			30	60	120	Ü		_			1	\$ 31,85
3.12.35% Roadway Plans		2	40				16	20	160						_	\$ 32,41
3 13 Preliminary Drainage Report		2	8				24	52	128		16				-	\$ 31,29
3.14 Advisory and Mandatory Fact Sheets	-	2	24				24	10	16						52	
3 15 Engineer's Estimate		2	16	6			12	10	24							\$ 11,47
3 16 Preliminary Engineering Report		2	8	U	_		16	40	30							\$ 15,31
Task 4 - Environmental Studies and Documentation		-	U				10	40	50						- 00	, ,,,,,,,
4 1 Project Initiation		1	8		8		2	2				12	16		49	\$ 8,11
4 2 Preliminary Environmental Study (PES)		1	1		8		-	2				8	12	30	62	
			- '		U			-				9		**	U.S.	- 0,04
4.3 Technical Studies			1													

OMPANY			SCOPE O	WORK			PHASE.				
Dokken Engineering			Prelim	inary Engineerin	ng & Enviro	nmental	Phase I				
Replacement of Airport Boulevard Bridge over Whitewater River (Br:: No. 56C-0020)							March 8, 2	1021			
CAM					A CONTRACTOR OF THE PROPERTY O					hustis	COS1
4.3.2 Cultural Resources	1		6		1		20	80			\$ 15,24
4.3.3 Air Quality Impact Assessment (OPTIONAL)	1		2				4	12	40	59	\$ 6,83
4.3.4 Noise Study Report (OPTIONAL)	2	2	4		4		4	12	60	88	\$ 10,54
4.3 5 Noise Abatement Decision Report (OPTIONAL)	2	2	2		8		2	6	40	62	\$ 7,67
4.3.6 Hazardous Waste (Initial Site Assessment)	2	2	2				4			10	\$ 1,87
4.3.7 Hazardous Waste Phase II Testing (OPTIONAL)	2		2				2			6	\$ 1,22
4.3.8 Water Quality Assessment Report	2	1	2		1		4	12	40	62	\$ 7,41
4.3.9 Section 4(f) Evaluation	1		1				2	12	20	36	\$ 4,32
4 3 10 Paleontological Report	1		1				4	4		10	\$ 1,57
4 3 11 Visual Impact Assessment	1		1 -		1		4	12	60	79	\$ 8,75
4.3.12 Community Impact Assessment (OPTIONAL)	1		1				4	8	40	54	\$ 6,07
4 3.13 Location Hydraulic Study/Floodplain Evaluation Report Summary	1		1	16	40	80				138	\$ 19,61
4 4 Environmental Document											
4 4.1 Draft Environmental Document	2		8				12	40	100	162	\$ 19,28
4.4.2 Notice of Availability			2				6	12	24	44	\$ 5,30
4 4 3 Response to Comments			4				10	16	24	54	\$ 6,88
4.4.4 Final Environmental Document	2		6				6	8	24	46	\$ 6,18
4.4.5 Notice of Determination (FINAL)			1				2	4		7	\$ 1.05
4.4.6 NEPA CE	2		4				4	8	12	30	\$ 4,23



COMPANY Political Engineering					OPE OF WORK					PHASE				
Dokken Engineering				(Construction Suppo	rt				Phase IV				
Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 58C-0020)										March 8, 2021				
VAIK.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A STATE OF S	geed geed		A SZ 1 S	\$ 100 Ma	ST 3 OF	The state of the s		\$146.71	37 July 200	Cartinate Cartin	i de la constantina della constantina della cons	Cos
otal Manhours	44	96	76	35	52	90	270	116	108	34	84	116	1,121	
otal mannours	-													
ask 13 - Construction Support	32	24	24	24									104	\$ 22,
ask 13 - Construction Support 13.1 Attend a Pre-Construction Meeting and Site Meetings 13.2 Administration, Respond to Contractor's RFI & Review Shop Drawings		24	24	24	24	40	110	40	32				104 326	-
ask 13 - Construction Support 13.1 Attend a Pre-Construction Meeting and Site Meetings 13.2 Administration, Respond to Contractor's RFI & Review Shop Drawings Submittals	32	-		24	24 16	40	110	40 16	32 16					\$ 49,
ask 13 - Construction Support 13.1 Attend a Pre-Construction Meeting and Site Meetings 13.2 Administration, Respond to Contractor's RFI & Review Shop Drawings Submittals 13.3 Prepare Construction Change Orders	32 8	40	32	24									326	\$ 49, \$ 29,
ask 13 - Construction Support 13.1 Attend a Pre-Construction Meeting and Site Meetings 13.2 Administration, Respond to Contractor's RFI & Review Shop Drawings Submittals 13.3 Prepare Construction Change Orders 13.4 Prepare As-Built Plans	32 8 2	40 24	32 16	24	16	30	80	16	16				326 200	\$ 49, \$ 29,
ask 13 - Construction Support 13.1 Attend a Pre-Construction Meeting and Site Meetings 13.2 Administration, Respond to Contractor's RFI & Review Shop Drawings Submittals 13.3 Prepare Construction Change Orders 13.4 Prepare As-Built Plans	32 8 2	40 24	32 16	24	16	30	80	16	16	8	12	16	326 200	\$ 49, \$ 29, \$ 32,
ask 13 - Construction Support 13.1 Attend a Pre-Construction Meeting and Site Meetings 13.2 Administration, Respond to Contractor's RFI & Review Shop Drawings Submittats 13.3 Prepare Construction Change Orders 13.4 Prepare As-Built Plans 13.5 Environmental Construction Support	32 8 2	40 24	32 16		16	30	80	16	16	8 8	12 36	16 36	326 200 246	\$ 49, \$ 29, \$ 32,
Task 13 - Construction Support 13.1 Altend a Pre-Construction Meeting and Site Meetings 13.2 Administration, Respond to Contractor's RFI & Review Shop Drawings Submittals 13.3 Prepare Construction Change Orders 13.4 Prepare As-Built Plans 13.5 Environmental Construction Support 13.5.1 Regulatory Agency Coordination	32 8 2	40	32 16	2	16	30	80	16	16				326 200 246 38	\$ 4,8 \$ 9,7

SUBCONSULTANT FEE PROPOSAL WO	RKSHEET	
COMPANY:	SCOPE OF WORK:	PHASE:
Earth Mechanics, Inc.	Geotechnical	All Phases
PROJECT:		DATE
Replacement of Airport Boulevard Bridge over Wi	hitewater River (Br. No. 56C-0020)	November 24, 2020

PERSONNEL	POSITION	HOURS		RATE	TAUOMA
Lino Cheang	Principal	112	@	\$89.00	\$9,968.00
Alahesh Thurairajah	Project Manager	266	@	\$55.00	\$14,630.00
Michael Hoshiyama	Sr. Project Geologist	168	@	\$48.00	\$8,064.00
Jainmin Fang	Senior Technician	56	@	\$41.50	\$2,324.00
Pratha Ragavan	Staff Engineer	164	@	\$36.00	\$5,904.00

TOTAL HOURS 766 AL DIRECT LABOR

\$40,890.00

MULTIPLIERS

ESCALATION @	3.00%	(Rates Vary by Phase)	\$969.42
OVERHEAD @	185.46%	(of Direct Labor + Escalation)	\$77,632.48
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE)	10.0%		\$11,949.19

TOTAL MULTIPLIERS

\$90,551.09

OTHER DIRECT COSTS

· · · Billed at Actual Cost · · ·

ITEM	QUANTITY	UNIT	of 15	UNIT COST	AMOUNT
Drill Rig Rental	6.5	Day	@	\$4,000.00	\$26,000.00
Traffic Control	6.5	Day	@	\$1,650.00	\$10,725.00
Soil Cuttings Contaminants Testing	6	LS	@	\$315.00	\$1,890.00
Soil Cutting (Drums) Disposal	30	LS	@	\$160.00	\$4,800.00
Shipping and Reporduction	2	LS	@	\$100.00	\$200.00
Mileage	2600	LS	@	\$0.58	\$1,495.00

TOTAL ODC'S

\$45,110.00

TOTAL

\$176,551.09

SUBCONSULTANT FEE PROPOSAL WO	RKSHEET	and the latter of the latter o
COMPANY: Earth Mechanics, Inc.	SCOPE OF WORK: Geotechnical	PHASE:
PROJECT;	1	DATE:
Replacement of Airport Boulevard Bridge ov	er Whitewater River (Br. No. 56C-0020)	November 24, 2020

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Lino Cheang	Principal	24	@	\$89.00	\$2,136.00
Alahesh Thurairajah	Project Manager	44	@	\$55.00	\$2,420.00
Michael Hoshiyama	Sr. Project Geologist	8	@	\$48.00	\$384.00
Jainmin Fang	Senior Technician			\$41.50	
Pratha Ragavan	Staff Engineer	12	@	\$36.00	\$432.00
	TOTAL HO	URS 88	AL DIR	ECT LABOR	\$5,372.00

MULTIPLIERS

ESCALATION @	3.00%	(of Direct Labor)		\$161.16
OVERHEAD @	185.46%	(of Direct Labor + Escalation)		\$10,261.80
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)		
PROFIT (FIXED FEE)	10.0%			\$1,579.50
			TOTAL MULTIPLIERS	\$12,002.45

OTHER DIRECT COSTS ... Billed at Actual Cost ...

	Dinod at Motadi Goot				
ITEM		QUANTITY	UNIT	UNIT COST	AMOUNT
Drill Rig Rental			Day	\$4,000.00	
Traffic Control			Day	\$1,650.00	
Soil Cuttings Contaminants Testing			LS	\$315.00	
Soil Cutting (Drums) Disposal			LS	\$160.00	
Shipping and Reporduction			LS	\$100.00	
Mileage			LS	\$0.58	

TOTAL ODC'S

TOTAL \$17,374.45

SUBCONSULTANT FEE PROPOSAL WOR	RKSHEET	
COMPANY: Earth Mechanics, Inc.	SCOPE OF WORK: Geotechnical	PHASE: Phase II
PROJECT: Replacement of Airport Boulevard Bridge over	er Whitewater River (Br. No. 56C-0020)	DATE: November 24, 2020

	TOTAL	HOURS 496	AL DI	RECT LABOR	\$26,942.0
Pratha Ragavan	Staff Engineer	104	@	\$36.00	\$3,744.0
Jainmin Fang	Senior Technician	36	@	\$41.50	\$1,494.0
Michael Hoshiyama	Sr. Project Geologist	124	@	\$48.00	\$5,952.0
Alahesh Thurairajah	Project Manager	144	@	\$55.00	\$7,920.0
Lino Cheang	Principal	88	@	\$89.00	\$7,832.0
PERSONNEL	POSITION	HOURS		RATE	AMOUNT

MULTIPLIERS

ECCAL ATION &	0.000/		****
ESCALATION @	3.00%	(of Direct Labor)	\$808.26
OVERHEAD @	185.46%	(of Direct Labor + Escalation)	\$51,465.63
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE)	10.0%		\$7,921.59

TOTAL MULTIPLIERS \$60,195.48

OTHER DIRECT COSTS

· · · Billed at Actual Cost · · ·

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Drill Rig Rental	6.5	Day	@	\$4,000.00	\$26,000.00
Traffic Control	6.5	Day	@	\$1,650.00	\$10,725.00
Soil Cuttings Contaminants Testing	6	LS	@	\$315.00	\$1,890.00
Soil Cutting (Drums) Disposal	30	LS	@	\$160.00	\$4,800.00
Shipping and Reporduction	2	LS	@	\$100.00	\$200.00
Mileage	2600	LS	@	\$0.58	\$1,495.00

TOTAL ODC'S

\$45,110.00

TOTAL

\$132,247.48

SUBCONSULTANT FEE PROPOSAL WO	RKSHEET	
COMPANY:	SCOPE OF WORK:	PHASE:
Earth Mechanics, Inc.	Geotechnical	Phase III
PRÔJECT	Commence of the Commence of th	DATE
Replacement of Airport Boulevard Bridge ov	ver Whitewater River (Br. No. 56C-0020)	November 24, 2020

		TOTAL HOURS	38	AL DIR	ECT LABOR	\$1,826.00
Pratha Ragavan	Staff Engineer		8	@	\$36.00	\$288.0
Jainmin Fang	Senior Technician				\$41.50	
Michael Hoshiyama	Sr. Project Geologist		16	@	\$48.00	\$768.0
Alahesh Thurairajah	Project Manager		14	@	\$55.00	\$770.0
Lino Cheang	Principal				\$89.00	
PERSONNEL	POSITION		HOURS		RATE	THUOMA

MULTIPLIERS

ESCALATION @		(of Direct Labor)	
OVERHEAD @	185.46%	(of Direct Labor + Escalation)	\$3,386.50
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE)	10.0%		\$521.25

TOTAL MULTIPLIERS \$3,907.75

OTHER DIRECT COSTS

· · · Billed at Actual Cost · · ·

	Billiod at 7 totaal 003t				
ITEM		QUANTITY	UNIT	UNIT COST	AMOUNT
Drill Rig Rental			Day	\$4,000.00	
Traffic Control			Day	\$1,650.00	
Soil Cuttings Contaminants Testing			LS	\$315.00	
Soil Cutting (Drums) Disposal			LS	\$160.00	
Shipping and Reporduction			LS	\$100.00	
Mileage			LS	\$0.58	
				TOTAL ODC'S	

TOTAL ODC'S

TOTAL \$5,733.75

SUBCONSULTANT FEE PROPOSAL WO	RKSHEET	
COMPANY:	SCOPE OF WORK:	PHASE:
Earth Mechanics, Inc.	Geotechnical	Phase IV
PROJECT:		DATE:
Replacement of Airport Boulevard Bridge of	ver Whitewater River (Br. No. 56C-0020)	November 24, 2020

PERSONNEL	POSITION	Hours	NE ME	RATE	AMOUNT
Lino Cheang	Principal			\$89.00	
Alahesh Thurairajah	Project Manager	64	@	\$55.00	\$3,520.0
Michael Hoshiyama	Sr. Project Geologist	20	@	\$48.00	\$960.0
Jainmin Fang	Senior Technician	20	@	\$41.50	\$830.0
Pratha Ragavan	Staff Engineer	40	@	\$36.00	\$1,440.0
	TOTAL HO	DURS 144	TAL DIE	ECT LABOR	\$6,750.0

MULTIPLIERS

(of Direct Labor)	
185.46% (of Direct Labor + Escalation)	\$12,518.55
(of Direct Labor + Escalation)	
10.0%	\$1,926.86
	185.46% (of Direct Labor + Escalation) (of Direct Labor + Escalation)

TOTAL MULTIPLIERS \$14,445.41

OTHER DIRECT COSTS

· · · Billed at Actual Cost · · ·

IVEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Drill Rig Rental		Day	\$4,000.00	
Traffic Control		Day	\$1,650.00	
Soil Cuttings Contaminants Testing		LS	\$315.00	
Soil Cutting (Drums) Disposal		LS	\$160.00	
Shipping and Reporduction		LS	\$100.00	
Mileage		LS	\$0.58	

TOTAL ODC'S

TOTAL \$21,195.41

SUBCONSULTANT MANHOUR WORKSHEET SUMMARY		THE PARTY AND THE PARTY OF THE
COMPANY	SCOPE OF WORK:	PHASE:
Earth Mechanics, Inc.	Geotechnical	All Phases
PROJECT		DATÉ
Replacement of Airport Boulevard Bridge over Whitewater River (Br.	No. 56C-0020)	November 24, 2020

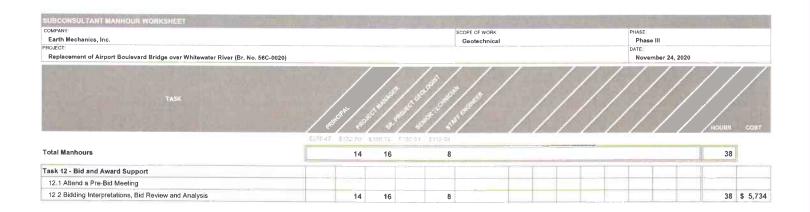
TASK	le de la constante de la const	A ROSE TO		Secretary Parks	ACUT Spirited		ors.
PHASE TOTALS	\$279.47 S	266	\$150.72 \$ 168	5130.31 \$	113.04 164		766
PHASE I	24	44	8		12	There was no financial and a state of the st	88
HASE II	88	144	124	36	104		496
iase III		14	16		8		38
HASEIV		64	20	20	40		144

SUBCONSULTANT MANHOUR WORKSHEET COMPANY			-		SCOPE OF WORK				PHASE:	10000		
Earth Mechanics, Inc.					Geotechnica	1			Phas	e l		
ROJECT- Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)									Nove	mber 24, 2020		
TAON	1	ar again	and the state of t			/					hours	COST
Total Manhours	24	44	8	132-341 51113-0							88	
Fask 1 - Project Management								T				
1.1 Project Coordination and Project Team Meetings												
1.2 Monthly Progress Reports												
1 3 Progress Schedule												
1.4 Quality Control						-						
1.5 Cost Accounting				111111111111111111111111111111111111111								
ask 2 - Research and Data Gathering					1		-					
2.1 Collect and Review Existing Information			-		1							
2.2 Conduct Field Review			-		+							
ask 3 - Preliminary Engineering				1	1							
3.1 Traffic Studies												
3.2 Preliminary Utility Research and Utility Base Map					1							
3.3 Permits												
3.4 Surveying and Right of Way Mapping (By County)												
3.5 Preliminary Geotechnical	8	20	8		1						36	\$ 6,8
3,6 Right of Way Requirement Map					1							700000000000000000000000000000000000000
3.7 Preliminary Roadway and Geometric Plans												
3.8 Stage Construction Design												
3.9 Structure Advance Planning Study												
3.10 Preliminary Bridge Design Hydraulic Study (BDHS) Report												
3.11 Plan of Action (POA)												
3.11.1 Geotech Scour Analysis	16	24		13	2						52	\$ 9,9
3.11.2 Structure Scour Analysis					1							
3.11.3 Scour Plan of Action (POA)								-				
3.12 35% Roadway Plans												
3.13 Preliminary Drainage Report									_			
3.14 Advisory and Mandatory Fact Sheets												
3.15 Engineer's Estimate						12.0						
3.16 Preliminary Engineering Report												
ask 4 - Environmental Studies and Documentation												
4.1 Project Initiation						1						
4.2 Preliminary Environmental Study (PES)												
4.3 Technical Studies												
4.3.1 Biological Resources												

COMPANY Earth Mechanics, Inc.					SCOPE OF WORK				PHASE Phase	o I			
ROJECT Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)									Nove	mber 24	2020		
TABK	/		Section of the sectio	gi de de la constante de la co	i de la companya de l	/	/					HOURS	COST
4.3.2 Cultural Resources							i						
4.3.3 Air Quality Impact Assessment (OPTIONAL)			1										
4.3.4 Noise Study Report (OPTIONAL)		-	1										
4.3.5 Noise Abatement Decision Report (OPTIONAL)													
4.3 6 Hazardous Waste (Initial Site Assessment)													
4 3.7 Hazardous Waste Phase II Testing (OPTIONAL)							-						
4.3.8 Water Quality Assessment Report												1	
4.3.9 Section 4(f) Evaluation													-
4.3.10 Paleontological Report													
4.3.11 Visual Impact Assessment													
4 3.12 Community Impact Assessment (OPTIONAL)													
4.3.13 Location Hydraulic Study/Floodplain Evaluation Report Summary													
4.4 Environmental Document													-
4.4.1 Draft Environmental Document				 									
4 4.2 Notice of Availability													
4,4.3 Response to Comments													
4.4.4 Final Environmental Document													
4.4.5 Notice of Determination (FINAL)		1											
4.4.6 NEPA CE			+										

SUBCONSULTANT MANHOUR WORKSHEET		1000	170	100	-	SCOFE OF WORK		PHASE	3 25	1000	-	
Earth Mechanics, Inc.						Geotechnical		Pha	se II			
PROJECT: Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)								DATE	ember 24,	2020		
TANK	Hours Co											
Total Manhours	88	144	124	36	104						496	
Task 5 - Project Management												
5.1 Project Coordination and Project Team Meetings												
5.2 Monthly Progress Reports					_							
5.3 Progress Schedule												
5.4 Quality Control												
5,5 Cost Accounting												
5.6 Permits												
Task 6 - Geotechnical Design Report			-									
6.1 Geotechnical Field Investigations	8	16	100		12			-			136	\$ 21,42
6.2 Laboratory Testing	4	8	- 144	36	8							\$ 8,09
6.3 Geotechnical Engineering Analysis	36	56			44							\$ 24,70
6.4 Geotechnical Report	40	64	24		40							\$ 30,37
Task 7 - Storm Water								******				
7.1 Drainage Report												
7.2 Bridge Design Hydraulic Study Report												
7.3 NPDES Data From										-		
7.4 Storm Water Pollution Prevention Plan (SWPPP)					-							
Task 8 - Utility Coordination												
8.1 Utility Coordination									1			
Task 9 - Final Design									-			
9.1 65% Plans, Specification & Estimates												
9.1.1 65% Roadway Plans												
9.1.2 Bridge Type Selection												
9.1.3 65% Unchecked Structure Plans												
9.1.4 65% Quantities and Estimate												
9.2 95% Plans, Specification & Estimates			3-3									
9.2.1 95% Roadway Plans												
9.2.2 Bridge Design Independent Check				-								
9.2.3 95% Structure Plans												
9.2 4 95% Quanities and Estimate												
9.2 3 95% Draft Special Provisions												
9.3 100% Plans, Specifications & Estimate												
9.3.1 100% Roadway Plans (Including Cross Sections)												
9.3.2 100% Structure Plans				-			-					_

COMPANY Earth Mechanics, Inc. ROJECT						Geotechnical					DA	Phase II			
Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)		/	/ site				/	/	//	//		November	24, 2020		
9.3.3 100% Quanities and Estimate	/.		good . V		got the St		/	/	/		/	//	//	HOURS	cos
9.3.4 100% Quantities and Estimate 9.3.4 100% Special Provisions	-	-	-										-	4	-
9.4 Final Approaved Submittal	-	-		-			-	-						1	-
ask 10 - Right of Way Engineering		-	-				+				- 3		+	1	
10.1 Property Owner Exhibits		_	_	-	-	-			bijama mje		-	-	_	-	-
10.2 Right of Way Legal Descriptions and Plats			~	-										1	
10 3 Right of Way Appraisal and Acquisition (By County)															
10.4 RFA Documentation and Approvals						20									
ask 11 - Environmental Permitting														1	
11.1 ACOE Section 404 Nationwide Permit															
11.2 RWQCB Section 401 Water Quality Certification															
11,3 CDFW Section 1602 Streambed Alteration Agreement															
11.4 Coordination and Processing									3			-			



COMPANY					SCOPE OF WORK:			PHASE		
Earth Mechanics, Inc.					Geotechnical			Phase IV		
ROJECT.							 	DATE		
Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)							- Destruction	November 24, 2	020	
TASK	\$20.41 SUE	Prester and	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	A STATE OF THE STA					HOURS	cost
Total Manhours		54 2	0 20				يناه ني		144	
ask 13 - Construction Support				T						1
13.1 Attend a Pre-Construction Meeting and Site Meetings										
13.2 Administration, Respond to Contractor's RFI & Review Shop Drawings Submittals		64 2	0 20	40					144	\$21,19
13.3 Prepare Construction Change Orders						CC=04-C=				
13.4 Prepare As-Built Plans										
13.5 Environmental Construction Support										
13.5.1 Regulatory Agency Coordination										
13.5.2 Pre-construction Biological Surveys and Support										
13.5.3 Environmental Awareness Trainings										
13.5.4 Environmental Commitment Records (ECR) and Mitigation/Monitoring/Reporting Plan (MMRP), and Compliance Monitoring										
13.5.5 Invasive Species Removal Program				-						-

SUBCONSULTANT FEE PROPOSAL	WORKSHEET	
COMPANY:	SCOPE OF WORK:	PHASE:
Fehr & Peers	Traffic Assessment	All Phases
PROJECT:		DATE:
Replacement of Airport Boulevard Bridge over	r Whitewater River (Br. No. 56C-0020)	November 24, 2020

	TOTAL HOL	JRS 132	'AL DIF	RECT LABOR	\$6,814.6
Sandra Hyatt	Admin	10	@	\$39.90	\$399.0
Saima Musharrat	GIS/Graphics	10	@	\$36.54	\$365.4
Mae Tamayo	Engineer/Planner	44	@	\$35.10	\$1,544.4
Paul Hermann	Project Engineer	34	@	\$49.04	\$1,667.3
Jinghua Xu	Forecasting Lead	2	@	\$63.46	\$126.9
Anna Luo	Traffic Lead	4	@	\$65.38	\$261.5
Jason Pack	Project Manager	28	@	\$87.50	\$2,450.0
PERSONNEL	POSITION	HOURS	4	RATE	AMOUNT

MULTIPLIERS

PROFIT (FIXED FEE)	10.0%	(**************************************	\$1,878.58
PAYROLL ADDITIVES @	175.67%	(of Direct Labor + Escalation) (of Direct Labor + Escalation)	\$11,971.2
ESCALATION @ OVERHEAD @	175 670/	(Rates Vary by Phase)	\$11,971.2

OTHER DIRECT COSTS

· Billed at Actual Cost · · ·

No. of Section 1	IYEM	Collins of the	QUANTITY	UNIT	UNIT COST	AMOUNT

TOTAL ODC'S

TOTAL

\$20,664.39

SUBCONSULTANT FEE PROPOSAL V	VORKSHEET	
COMPANY:	SCOPE OF WORK:	PHASE:
Fehr & Peers	Traffic Assessment	Phase I
PROJECT:	2000 CONTRACTOR CONTRA	DATE:
Replacement of Airport Boulevard Bridge	over Whitewater River (Br. No. 56C-0020)	November 24, 2020

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Jason Pack	Project Manager	28	@	\$87.50	\$2,450.00
Anna Luo	Traffic Lead	4	@	\$65.38	\$261.52
Jinghua Xu	Forecasting Lead	2	@	\$63.46	\$126.92
Paul Hermann	Project Engineer	34	@	\$49.04	\$1,667.36
Mae Tamayo	Engineer/Planner	44	@	\$35.10	\$1,544.40
Saima Musharrat	GIS/Graphics	10	@	\$36.54	\$365.40
Sandra Hyatt	Admin	10	@	\$39.90	\$399.00
	TO'	TAL HOURS 132	AL D	DIRECT LABOR	\$6,814.6

MULTIPLIERS

ESCALATION @		(of Direct Labor)	
OVERHEAD @	175.67%	(of Direct Labor + Escalation)	\$11,971.21
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE)	10.0%		\$1,878.58

TOTAL MULTIPLIERS \$13,849.79

OTHER DIRECT COSTS

· Billed at Actual Cost · · ·

ITEM PER PER PER PER PER PER PER PER PER PER	QUANTITY	UNIT	UNIT COST	AMOUNT

TOTAL ODC'S

TOTAL

\$20,664.39

SUBCONSULTANT FEE PROPOSAL V	VORKSHEET	
COMPANY:	SCOPE OF WORK:	PHASE:
Fehr & Peers	Traffic Assessment	Phase II
PROJECT:		DATE:
Replacement of Airport Boulevard Bridge	over Whitewater River (Br. No. 56C-0020)	November 24, 2020

PERSONNEL	FOSITION	HOURS	RATE	AMOUNT
Jason Pack	Project Manager		\$87.50	
Anna Luo	Traffic Lead		\$65.38	
Jinghua Xu	Forecasting Lead		\$63.46	
Paul Hermann	Project Engineer		\$49.04	
Mae Tamayo	Engineer/Planner		\$35.10	
Saima Musharrat	GIS/Graphics		\$36.54	
Sandra Hyatt	Admin		\$39.90	

TOTAL HOURS

'AL DIRECT LABOR

MULTIPLIERS

ESCALATION @		(of Direct Labor)
OVERHEAD @	175.67%	(of Direct Labor + Escalation)
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)
PROFIT (FIXED FEE)	10.0%	

TOTAL MULTIPLIERS

OTHER DIRECT COSTS	•••	Billed at Actual Cost :	**
OTHER DIRECT COSTS	•••	Billed at Actual (Cost 🌁

ITEM 1	QUANTITY UNIT	UNIT COST	AMOUNT

TOTAL ODC'S

TOTAL	

SUBCONSULTANT FEE PROPOSAL	WORKSHEET	The State of the S
COMPANY: Fehr & Peers	SCOPE OF WORK: Traffic Assessment	PHASE: Phase III
PROJECT: Replacement of Airport Boulevard Bridg	ge over Whitewater River (Br. No. 56C-0020)	DATE: November 24, 202

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Jason Pack	Project Manager		\$87.50	
Anna Luo	Traffic Lead		\$65.38	
Jinghua Xu	Forecasting Lead		\$63.46	
Paul Hermann	Project Engineer		\$49.04	
Mae Tamayo	Engineer/Planner		\$35,10	
Saima Musharrat	GIS/Graphics		\$36.54	
Sandra Hyatt	Admin		\$39.90	
	TOTA	HOURS	AL DIRECT LABOR	

TOTAL HOURS

AL DIRECT LABOR

MULTIPLIERS

ESCALATION @		(of Direct Labor)
OVERHEAD @	175.67%	(of Direct Labor + Escalation)
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)
PROFIT (FIXED FEE)	10.0%	

TOTAL MULTIPLIERS

OTHER DIRECT COSTS

· · · Billed at Actual Cost · · ·

LINES STORY	ITEM	4-13:41	QUANTITY	UNIT	UNIT COST	AMOUNT
			Sorp.		TOTAL ODG'S	

TOTAL ODC'S

TOTAL	1000000000
TOTAL	

SUBCONSULTANT FEE PROPOSAL V	VORKSHEET				
COMPANY:	SCOPE OF WORK	PHASE:			
Fehr & Peers					
PROJECT:		DATE:			
Replacement of Airport Boulevard Bridge	e over Whitewater River (Br. No. 56C-0020)	November 24, 2020			

PERSONNEL	POSITION	IOURS RATE	AMOUNT
Jason Pack	Project Manager	\$87.50	
Anna Luo	Traffic Lead	\$65.38	
Jinghua Xu	Forecasting Lead	\$63.46	
Paul Hermann	Project Engineer	\$49.04	
Mae Tamayo	Engineer/Planner	\$35.10	
Saima Musharrat	GIS/Graphics	\$36.54	
Sandra Hyatt	Admin	\$39.90	

TOTAL HOURS

AL DIRECT LABOR

MULTIPLIERS

ESCALATION @		(of Direct Labor)
OVERHEAD @	175.67%	(of Direct Labor + Escalation)
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)
PROFIT (FIXED FEE)	10.0%	

TOTAL MULTIPLIERS

OTHER DIRECT COSTS
OTHER DIRECT COSTS

· Billed at Actual Cost · · ·

ITEM	17 980	QUANTITY	UNIT	UNIT COST	AMOUNT
				TOTAL ODC'S	

TOTAL ODC'S

TOTAL		
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SUBCONSULTANT MANHOUR WORKSHEET SUMMARY		
COMPANY.	SCOPE OF WORK	PHASE
Fehr & Peers	Traffic Assessment	All Phases
PROJECT	2 d de la Margadi, companyo e e e	DATE
Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 5)	6C-0020)	November 24, 2020

\$265.33 \$198.26 \$192.43 \$148.71 \$106.44 \$510.80 \$120.99							Hours		
PHASE TOTALS	28	4	2	34	44	10	10	132	
PHASE I	28	4	2	34	44	10	10	132	
PHASEII									
PHASE III									
PHASE IV									

COMPANY Fehr & Peers						OPE OF WORK: Fraffic Asses	sment			PHASE:	e I			
ROJECT Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)		-								November 24, 2020				
Replacement of Airport Boulevard Bridge over Writtewater River (Br. No. 56C-0020)					, ,					Nove	mber 24, 2	2020	,	,
TASK	\$ 05 00 00 00 00 00 00 00 00 00 00 00 00	C. Warden	ELEP AND A	SPECTAL SEC	e today	Series Contraction of the Contra							ours	COST
Fotal Manhours	28	4	2	34	44	10	10						132	
Fask 1 - Project Management	-					1	- 7	7		7	-	4		
1.1 Project Coordination and Project Team Meetings					_					-	-			
1.2 Monthly Progress Reports			+							-				_
1.3 Progress Schedule	-	-			_			-					-	
1.4 Quality Control	-							_			-		_	
1.5 Cost Accounting										-	-		-	
Fask 2 - Research and Data Gathering	_											-	_	
2.1 Collect and Review Existing Information								-	-					
2.2 Conduct Field Review	-					-								
Task 3 - Preliminary Engineering		-												10100
3.1 Traffic Studies										+	-			
3.2 Preliminary Utility Research and Utility Base Map	28	4	2	34	44	10	10						132	\$ 20,66
3.3 Permits	-							-	_	-	-			
3.4 Surveying and Right of Way Mapping (By County)	_		*********			_		_			-			
3.5 Preliminary Geotechnical						_	-	_		-	-		-	
3 6 Right of Way Requirement Map	_		-	_						-				
3 7 Preliminary Roadway and Geometric Plans	_							_			-			
3 8 Stage Construction Design				-		_		-		-	-	-	-	
3.9 Structure Advance Planning Study	_			_				-			-	_	-	
3.10 Preliminary Bridge Design Hydraulic Study (BDHS) Report	+	-								-	-		-	
3.11 Plan of Action (POA)	-							-	_	-	-	_		
3.11.1 Geotech Scour Analysis	-							1		-				
3.11.2 Structure Scour Analysis								+	_					
3.11.3 Scour Plan of Action (POA)		-		_	_		-	_		-			-	
3.12 35% Roadway Plans	-		- 22					+					-	
3.13 Preliminary Drainage Report				-				+	-				-	-
3.14 Advisory and Mandatory Fact Sheets	-													
3.15 Engineer's Estimate	1 1	-						-					-	
3.16 Preliminary Engineering Report								+		1	-		-	
∍sk 4 - Environmental Studies and Documentation	1	77						+		-	72			
										1	1			

OMPANY: Fehr & Peers OUJECT Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)				SCOPE OF WORK Traffic Assessment					0	Phase I DATE: November 24, 2020						
Task	/.	Colfe Land	Service Control	A CASTRALL OF		E CO	EL SAGE	/							Aoura	cost
4.3 Technical Studies																
4.3.1 Biological Resources		-														
4.3.2 Cultural Resources		1						1								
4.3.3 Air Quality Impact Assessment (OPTIONAL)																
4.3.4 Noise Study Report (OPTIONAL)																
4.3.5 Noise Abatement Decision Report (OPTIONAL)				-												
4.3.6 Hazardous Waste (Initial Site Assessment)				1										_		
4.3.7 Hazardous Waste Phase II Testing (OPTIONAL)							-									
4.3.8 Water Quality Assessment Report			-	-			+							_	_	
4.3.9 Section 4(f) Evaluation				_			-									
4.3.10 Paleontological Report				_			-		_					-		
4 3.11 Visual Impact Assessment				-			1		_							
4.3.12 Community Impact Assessment (OPTIONAL)				1			_									
4.3.13 Location Hydraulic Study/Floodplain Evaluation Report Summary							-									
4.4 Environmental Document				- Devision		-										
4.4.1 Draft Environmental Document		1		10			_								-	
4.4.2 Notice of Availability							-	-								
4.4.3 Response to Comments							1/									
4.4.4 Final Environmental Document				_												
4.4.5 Notice of Determination (FINAL)			_	i -												
4.4.6 NEPA CE			-	-					- 1	_		_		_		

OMPANY					SCOPE OF WOR	ik:				PHASE				
Fehr & Peers					Traffic Ass	essment				Phase	H			
Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)										Nover	nber 24,	2020		
TASK	A SERVICE SERVICE	greit er?	e costrois	\$ / B		Service Service							HOURS	Co
otal Manhours	\$ 6 5 E198	26 51924!	S148 11	\$ 10E 44	3110 60	\$1.3.90								1
ask 5 - Project Management								-						
5.1 Project Coordination and Project Team Meetings														
5 2 Monthly Progress Reports														
5.3 Progress Schedule														
5.4 Quality Control					=									
5.5 Cost Accounting		-					-	-	100					
5.6 Permits			-											+
ask 6 - Geotechnical Design Report			-	-										
6.1 Geotechnical Field Investigations							-	-						+
6.2 Laboratory Testing				-										
6.3 Geotechnical Engineering Analysis														1
6,4 Geotechnical Report	334			-			_							
ask 7 - Storm Water							-						*******	
7.1 Drainage Report			1											
7.2 Bridge Design Hydraulic Study Report														1
7.3 NPDES Data From			1											
7.4 Storm Water Pollution Prevention Plan (SWPPP)	1													
ask 8 - Utility Coordination								-						
8.1 Utility Coordination	1		1						-					
ask 9 - Final Design														
9.1 65% Plans, Specification & Estimates									-				Normal .	1
9 1.1 65% Roadway Plans	1													
9.1.2 Bridge Type Selection														
9 1 3 65% Unchecked Structure Plans														1
9.1.4 65% Quantities and Estimate														
9.2.95% Plans Specification & Estimates						1								
9,2.1 95% Roadway Plans														
9.2.2 Bridge Design Independent Check														1
9.2.3 95% Structure Plans														
9.2 4 95% Quanities and Estimate			İ		1									
9.2 3 95% Draft Special Provisions												-		1
									1				1	-

COMPANY		SCOPE OF WO	RK		PHASE			
Fehr & Peers		Traffic Assessment				Phase II		
PROJECT: Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)						November 24, 2020		
replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)					Nov	ember 24, 2020		
YASK	and and a second		gare state				House	0057
9.3.2 100% Structure Plans								
9.3.3 100% Quanities and Estimate								
9.3.4 100% Special Provisions								
9 4 Final Approaved Submittal								
Task 10 - Right of Way Engineering								
10.1 Property Owner Exhibits								
10.2 Right of Way Legal Descriptions and Plats								
10.3 Right of Way Appraisal and Acquisition (By County)								
10.4 RFA Documentation and Approvals								
ask 11 - Environmental Permitting								
11.1 ACOE Section 404 Nationwide Permit							-	
11.2 RWQCB Section 401 Water Quality Certification								
11.3 CDFW Section 1602 Streambed Alteration Agreement			Total Control of the					
11.4 Coordination and Processing								

COMPANY Fehr & Peers PROJECT Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)	scope of Traffic	work Assessment	PHASE: Phase III DATE: November 24, 2020		
	Secretary of Secretary of the secretary				
	/ 4/ 4/ 8/ 8/ 8/		Hours cost		
	5905 NO \$19530 \$1504 \$148 NO \$10044 \$110 8	8920 99	Hours cost		
Total Manhours	5785 30 \$195 20 \$150.4 \$14F 211 \$180.44 \$110.50		/ / Hours cost		
	5765 50 5105 20 5150.4 514F 211 5186.44 3118.81				
Total Manhours Task 12 - Bid and Award Support 12.1 Attend a Pre-Bid Meeting					

OMPANY: Fehr & Peers		SCOPE OF Traffic	Assessment	PHASE Phase I	v	
ROJECT Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)		- American		DATE: November 24, 2020		
TASK	A SE STATE OF SE				HOU	RS COS
otal Manhours	\$260 S1 6 In ENULLY S146	11 S106 40 B110-B	D STOP PL			
ask 13 - Construction Support			1			
13,1 Attend a Pre-Construction Meeting and Site Meetings						
13.2 Administration, Respond to Contractor's RFI & Review Shop Drawings Submittals						
13.3 Prepare Construction Change Orders						
13.4 Prepare As-Built Plans						
13.5 Environmental Construction Support						
13.5.1 Regulatory Agency Coordination						
13.5.2 Pre-construction Biological Surveys and Support						
13,5 3 Environmental Awareness Trainings						
13.5.4 Environmental Commitment Records (ECR) and Mitigation/Monitoring/Reporting Plan (MMRP), and Compliance Monitoring		And harteful harte				
13.5.5 Invasive Species Removal Program			_			

SUBCONSULTANT FEE PROPOSAL	WORKSHEET	
COMPANY:	SCOPE OF WORK.	PHASE:
WRECO	Hydraulics	All Phases
PROJECT:	DATE:	
Replacement of Airport Boulevard Bridge ov	November 24, 2020	

PERSONNEL	POSITION	HOURS	DEV.	RATE	AMOUNT
Han-Bin Liang	Principal Engineer	34	@	\$100.69	\$3,423.46
Chris Sewell	Supervising Engineer	41	@	\$73.20	\$3,001.20
Melissa McAssey	Senior Geologist	32	@	\$60.00	\$1,920.00
Staff	Senior Engineer	84	@	\$70.53	\$5,924.52
Staff	Associate Engineer	132	@	\$45.00	\$5,940.00
Staff	Associate Geologist	72	@	\$40.74	\$2,933.28
Staff	Staff Engineer	156	@	\$35.00	\$5,460.00
Staff	Staff Geologist	92	@	\$32.00	\$2,944.00
Staff	Staff Env. Scientist	62	@	\$30,69	\$1,902.78
Staff	Senior Technician		@	\$33.09	
Staff	Project Coordinator/Tech Editor	8	@	\$30.37	\$242.96
	1,01				

TOTAL HOURS 713 AL DIRECT LABOR \$33,692.20

MULTIPLIERS

ESCALATION @	4.00%	(Rates Vary by Phase)	\$1,347.69
OVERHEAD @	134.92%	(of Direct Labor + Escalation)	\$47,275.82
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE)	10.0%		\$8,231.57

TOTAL MULTIPLIERS \$56,855.08

OTHER DIRECT COSTS

· · · Billed at Actual Cost · · ·

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Mileage	870	Miles	@	\$0.58	\$500.00
Reproductions	1	LS	@	\$350.00	\$350.00
EDR Report	1	LS	@	\$400.00	\$400.00
Field Reconnaissance	1	LS	@	\$1,500.00	\$1,500.00
Laboratory Testing	1	LS	@	\$5,200.00	\$5,200.00
Drilling	1	LS	@	\$5,800.00	\$5,800.00
Structural Elements Laboratory Testing	1	LS	@	\$1,100.00	\$1,100.00
Structural Elements Sampling	1	LS	@	\$3,000.00	\$3,000.00
Field Work	1	LS	@	\$1,800.00	\$1,800.00

TOTAL ODC'S \$19,650.00

TOTAL \$110,197.28

SUBCONSULTANT FEE PROPOSAL	. WORKSHEET	
COMPANY:	SCOPE OF WORK;	PHASE:
WRECO	Hydraulics	Phase I
PROJECT:	DATE:	
Replacement of Airport Boulevard Brid	November 24, 2020	

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Han-Bin Liang	Principal Engineer	34	@	\$100.69	\$3,423.46
Chris Sewell	Supervising Engineer	37	@	\$73.20	\$2,708.40
Melissa McAssey	Senior Geologist	32	@	\$60.00	\$1,920.00
Staff	Senior Engineer	68	@	\$70.53	\$4,796.04
Staff	Associate Engineer	84	@	\$45.00	\$3,780.00
Staff	Associate Geologist	72	@	\$40.74	\$2,933.28
Staff	Staff Engineer	96	@	\$35.00	\$3,360.00
Staff	Staff Geologist	92	@	\$32.00	\$2,944.00
Staff	Staff Env. Scientist	62	@	\$30.69	\$1,902.78
Staff	Senior Technician			\$33.09	
Staff	Project Coordinator/Tech Editor	8	@	\$30.37	\$242.96
	TOTAL HOU	RS 585	TAL D	IRECT LABOR	\$28,010.92

MULTIPLIERS

ESCALATION @	4.00%	(of Direct Labor)	\$1,120.44
OVERHEAD @	134.92%	(of Direct Labor + Escalation)	\$39,304.03
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE)	10.0%		\$6,843.54

TOTAL MULTIPLIERS \$47,268.00

OTHER DIRECT COSTS

· Billed at Actual Cost ···

	Billed at Actual Cost					
ITEM		QUANTITY	UNIT		UNIT COST	AMOUNT
Mileage		870	Miles	@	\$0.58	\$500.00
Reproductions		1	LS	@	\$350.00	\$350.00
EDR Report		1	LS	@	\$400.00	\$400.00
Field Reconnaissance		1	LS	@	\$1,500.00	\$1,500.00
Laboratory Testing		1	LS	@	\$5,200 00	\$5,200.00
Drilling		1	LS	@	\$5,800.00	\$5,800.00
Structural Elements Laboratory Testing		1	LS	@	\$1,100.00	\$1,100.00
Structural Elements Sampling		1	LS	@	\$3,000.00	\$3,000.00
Field Work		1	LS	@	\$1,800.00	\$1,800.00
					TOTAL ODGIG	\$40.6E0.00

TOTAL ODC'S \$19,650.00

TOTAL \$94,928.92

SUBCONSULTANT FEE PROPOSAL WO	PRKSHEET	
COMPANY: WRECO	SCOPE OF WORK: Hydraulics	PHASE: Phase II
PROJECT: Replacement of Airport Boulevard Bridge of	ver Whitewater River (Br. No. 56C-0020)	DATE: November 24, 2020

Han-Bin Liang				RATE	AMOUNT
idi bir cidiig	Principal Engineer			\$100.69	
Chris Sewell	Supervising Engineer	4	@	\$73.20	\$292.80
Melissa McAssey	Senior Geologist			\$60.00	
Staff	Senior Engineer	16	@	\$70.53	\$1,128.48
Staff	Associate Engineer	48	@	\$45.00	\$2,160.00
Staff	Associate Geologist			\$40.74	
Staff	Staff Engineer	60	@	\$35.00	\$2,100.00
Staff	Staff Geologist			\$32.00	
Staff	Staff Env. Scientist			\$30.69	
Staff	Senior Technician			\$33.09	
Staff	Project Coordinator/Tech Editor			\$30.37	

TOTAL HOURS 128 AL DIRECT LABOR \$5,681.28

MULTIPLIERS

ESCALATION @	4.00%	(of Direct Labor)	\$227.25
OVERHEAD @	134.92%	(of Direct Labor + Escalation)	\$7,971.79
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE)	10.0%		\$1,388.03

TOTAL MULTIPLIERS \$9,587.07

OTHER DIRECT COSTS

· Billed at Actual Cost · · ·

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mileage		Miles	\$0.58	
Reproductions		LS	\$350.00	
EDR Report		LS	\$400.00	
Field Reconnaissance		LS	\$1,500.00	
Laboratory Testing		LS	\$5,200.00	
Drilling		LS	\$5,800.00	
Structural Elements Laboratory Testing		LS	\$1,100.00	
Structural Elements Sampling		LS	\$3,000.00	
Field Work		LS	\$1,800.00	
			TOTAL ODGIG	

TOTAL ODC'S

TOTAL \$15,268.35

SUBCONSULTANT FEE PROPOSAL	WORKSHEET	
COMPANY:	SCOPE OF WORK:	PHASE:
WRECO	Hydraulics	Phase III
PROJECT:	DATE	
Replacement of Airport Boulevard Bridge	Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)	

PERSONNEL	POSITION	HOURS RATE	AMOUNT
Han-Bin Liang	Principal Engineer	\$100.69	
Chris Sewell	Supervising Engineer	\$73.20	
Melissa McAssey	Senior Geologist	\$60.00	
Staff	Senior Engineer	\$70.53	
Staff	Associate Engineer	\$45.00	
Staff	Associate Geologist	\$40.74	
Staff	Staff Engineer	\$35.00	
Staff	Staff Geologist	\$32.00	
Staff	Staff Env. Scientist	\$30.69	
Staff	Senior Technician	\$33.09	
Staff	Project Coordinator/Tech Editor	\$30.37	

TOTAL HOURS

'AL DIRECT LABOR

MULTIPLIERS

ESCALATION @		(of Direct Labor)	
OVERHEAD @	134.92%	(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
Mileage		Miles	\$0.58	
Reproductions		LS	\$350.00	
EDR Report		LS	\$400.00	
Field Reconnaissance		LS	\$1,500.00	
Laboratory Testing		LS	\$5,200.00	
Drilling		LS	\$5,800.00	
Structural Elements Laboratory Testing		LS	\$1,100,00	
Structural Elements Sampling		LS	\$3,000.00	
Field Work		LS	\$1,800_00	
			TOTAL ODC'S	

TOTAL ODC'S

TOTAL

SUBCONSULTANT FEE PROPOSAL	WORKSHEET CONTROL OF THE PARTY	
COMPANY: WRECO	SCOPE OF WORK: Hydraulics	PHASE:
PROJECT	Try drawnoo	DATE;
Replacement of Airport Boulevard Brid	dge over Whitewater River (Br. No. 56C-0020)	November 24, 202

PERSONNEL	POSITION	HOURS RATE AMOUN
Han-Bin Liang	Principal Engineer	\$100.69
Chris Sewell	Supervising Engineer	\$73.20
Melissa McAssey	Senior Geologist	\$60,00
Staff	Senior Engineer	\$70.53
Staff	Associate Engineer	\$45.00
Staff	Associate Geologist	\$40.74
Staff	Staff Engineer	\$35.00
Staff	Staff Geologist	\$32.00
Staff	Staff Env. Scientist	\$30.69
Staff	Senior Technician	\$33.09
Staff	Project Coordinator/Tech Editor	\$30.37

TOTAL HOURS AL DIRECT LABOR

MULTIPLIERS

ESCALATION @		(of Direct Labor)
OVERHEAD @	134.92%	(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
Mileage		Miles	\$0.58	
Reproductions		LS	\$350.00	
EDR Report		LS	\$400.00	
Field Reconnaissance		LS	\$1,500.00	
Laboratory Testing		LS	\$5,200.00	
Drilling		LS	\$5,800.00	
Structural Elements Laboratory Testing		LS	\$1,100.00	
Structural Elements Sampling		LS	\$3,000.00	
Field Work		LS	\$1,800.00	

TOTAL ODC'S

TOTAL

SUBCONSULTANT MANHOUR WORKSHEET SUMMARY		THE RESERVE THE PERSON NAMED IN COLUMN TWO
COMPANY	SCOPE OF WORK	PHASE:
WRECO	Hydraulics	All Phases
PROJECT:	And constituted the Annual State of the Annual	DATE
Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56	C-0020)	November 24, 2020

TASK	\$260.20 \$189.16 \$1,55.05 \$162.26 \$116.29 \$105.26 \$90.44 \$82.69 \$79.31 \$85.51 \$78.48									Hours	
PHASE TOTALS	34	41	32	84	132	72	156	92	62	8	713
PHASE:	34	37	32	68	84	72	96	92	62	8	585
PHASE I		4		16	48		60				128
PHASEIII											
PHASE IV											

SUBCONSULTANT MANHOUR WORKSHEET COMPANY:		2000			isc	OPE OF WORK		7 10 10		PHASE	STATE OF	The State of	
WRECO						Hydraulics				Phase	I		
PROJECT Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)										Noven	nber 24, 2020		
TASH	\$260 at	gue de central	A STATE OF COMMENT	A COLUMN	and the state of t	ALLE SO	carocas interview	in the state of th	STEA	or Control		HOURS	COST
Total Manhours	34	37	32	68	84	72	96	92 62	8		H	585	1
Task 1 - Project Management				7									
1.1 Project Coordination and Project Team Meetings		-								-1/-			
1.2 Monthly Progress Reports		~								-			
1.3 Progress Schedule			Ť										
1.4 Quality Control													
1.5 Cost Accounting						1							
Task 2 - Research and Data Gathering													
2.1 Collect and Review Existing Information													
2.2 Conduct Field Review													
Task 3 - Preliminary Engineering													
3.1 Traffic Studies													
3.2 Preliminary Utility Research and Utility Base Map													
3.3 Permits													
3.4 Surveying and Right of Way Mapping (By County)													
3.5 Preliminary Geotechnical													
3.6 Right of Way Requirement Map 3.7 Preliminary Roadway and Geometric Plans									-				
3.8 Stage Construction Design		-	-		-	-			-	-			-
3.9 Structure Advance Planning Study	_		-				_			_	_		_
3.10 Preliminary Bridge Design Hydraulic Study (BDHS) Report	32	32		48	48	*****	48			-		208	\$ 33,05
3.11 Plan of Action (POA)	JE	JE		40	40		-10					200	\$ 55,05
3.11.1 Geotech Scour Analysis							-						
3.11.2 Structure Scour Analysis													
3.11.3 Scour Plan of Action (POA)							1						
3.12 35% Roadway Plans		- 1		4	8	G.	12					25	\$ 2,93
3.13 Preliminary Drainage Report	1	1		8	16		24						\$ 5,93
3.14 Advisory and Mandatory Fact Sheets													
3.15 Engineer's Estimate													
3 16 Preliminary Engineering Report													
Task 4 - Environmental Studies and Documentation													
4.1 Project Initiation				**************************************									
4.2 Preliminary Environmental Study (PES)				- Enumer									
4 3 Technical Studies													

COMPANY:					1	SCOPE OF WO	ORK:					PHASE:				
WRECO PROJECT:						Hydraulic	s					Phas	ei			
Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)												DATE:	mber 24	, 2020		
TASK	/ ž	Series Series			a de la companya de l	garit deserte	ST COLOR OF THE STATE OF THE ST		de de	e series	E LECOMOTO	Pot Co	acontest of		HOURS	COST
4.3.2 Cultural Resources																
4.3.3 Air Quality Impact Assessment (OPTIONAL)								1								
4.3.4 Noise Study Report (OPTIONAL)													T			
4.3.5 Noise Abatement Decision Report (OPTIONAL)													To be let !			
4.3.6 Hazardous Waste (Initial Site Assessment)		1	18			32		44	26		4				125	\$ 12,36
4.3.7 Hazardous Waste Phase II Testing (OPTIONAL)		1	14			40		48	36		4					\$ 13,709
4.3.8 Water Quality Assessment Report																
4.3.9 Section 4(f) Evaluation			15		-	· .									=======================================	
4.3 10 Paleontological Report																
4.3.11 Visual Impact Assessment																
4.3.12 Community Impact Assessment (OPTIONAL)					-											
4.3.13 Location Hydraulic Study/Floodplain Evaluation Report Summary	1	1		8	12		12								34	\$ 4,388
4.4 Environmental Document																
4.4.1 Draft Environmental Document													The same of			
4.4.2 Notice of Availability																-
4.4.3 Response to Comments																
4.4.4 Final Environmental Document			TO SAVE ALLE AND A STREET									-				
4.4.5 Notice of Determination (FINAL)																
4.4.6 NEPA CE													-			

COMPANY WRECO					OF WORK		PHAS	ase II		
PROJECT:				Hyd	fraulics		DATE	ase II		
Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)								vember 24, 2020		
TARK									HOURS	COST
Total Manhours	124620 516			THE THE		61 57F31 \$85.6°	\$ 78 41		100	
Total Manifours		4	16	48	60				128	1
Task 5 - Project Management										
5.1 Project Coordination and Project Team Meetings		-								
5.2 Monthly Progress Reports										
5.3 Progress Schedule										
5.4 Quality Control										
5 5 Cost Accounting										(Miles, Treatment
5.6 Permits										
ask 6 - Geotechnical Design Report			_	34 E				1	1	
6.1 Geotechnical Field Investigations		75						1 1	1	******
6.2 Laboratory Testing									1	
6.3 Geotechnical Engineering Analysis										
6.4 Geotechnical Report									1	
Task 7 - Storm Water			-							
7.1 Drainage Report										
7.2 Bridge Design Hydraulic Study Report									1	
7.3 NPDES Data From		-								
7.4 Storm Water Pollution Prevention Plan (SWPPP)		1	4	24	24				53	\$ 5,8
ask 8 - Utility Coordination									- 00	\$ 0,0
8 1 Utility Coordination		_					70 70			
Task 9 - Final Design									1	
9.1 65% Plans, Specification & Estimates		-							1	
9 1.1 65% Roadway Plans		1	4	8	12				26	\$ 2,9
9.1.2 Bridge Type Selection		-	4	0	12				25	φ 2,3
9 1.3 65% Unchecked Structure Plans		-								
9.1.4 65% Quantities and Estimate										
9 2 95% Plans, Specification & Estimates										
9.2.1 95% Roadway Plans		1	4	8	12				25	\$ 2,9
9.2.2 Bridge Design Independent Check			4	0	12			+	20	φ 2,9
9.2.3 95% Structure Plans									1	
9 2.4 95% Quanities and Estimate			1							
9.2.3 95% Draft Special Provisions			-		_				-	
9.3 100% Plans, Specifications & Estimate			-							

WRECO						SCOPE OF						PHASE				
ROJECT:						Hydra	ulics					Phas	se II			
Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)													mber 24	, 2020		
YANK	/ .	a Cepit de	et /		gris de la constantina della constantina della c	Sector to the	REED CO	gert gert			erici				HOURD	cos
9.3.2 100% Structure Plans			1			1	ŕ	ĺ	ĺ					Í		-
9.3.3 100% Quanities and Estimate						-										
9.3.4 100% Special Provisions									The same of the sa							***************************************
9.4 Final Approaved Submittal			-													
ask 10 - Right of Way Engineering			1													
10.1 Property Owner Exhibits						-		-								_
10.2 Right of Way Legal Descriptions and Plats	1															
10.3 Right of Way Appraisal and Acquisition (By County)																
10 4 RFA Documentation and Approvals																
ask 11 - Environmental Permitting				1000												
11.1 ACOE Section 404 Nationwide Permit											-					
11.2 RWQCB Section 401 Water Quality Certification		-	7					1	1							
11.3 CDFW Section 1602 Streambed Alteration Agreement	_		-	-		-		-	-	-	+	-	-	-	J	

company WRECO ROJECT: Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)	scope of work Hydraulics	PHASE: Phase III OATE November 24, 2020
TASK		grisi grit di di di di di di di di di di di di di
	\$200,20 \$189.16 \$185.05 \$182.20 \$110.20 \$100.26 \$90.44 \$82.69 \$75.31 \$85.51	5 8 4.
Total Manhours		
Fask 12 - Bid and Award Support		A(consequence)
12.1 Attend a Pre-Bid Meeting		

OMPANY WRECO ୧୦.୭୦୯୮ Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)		SCOPE OF WORK: Hydraulics	PHASE Phase IV DATE November 24, 2020		
TANK			gici de de la como co		
otal Manhours	\$200.00 \$180.10 \$155.00 \$100.00 \$110	29 \$10526 \$90,44 \$22.66 \$70.00 \$26.51	\$78.48		
ask 13 - Construction Support					
13.1 Attend a Pre-Construction Meeting and Site Meetings					
13.2 Administration, Respond to Contractor's RFI & Review Shop Drawings Submittals					
13 3 Prepare Construction Change Orders					
13.4 Prepare As-Built Plans					
13.5 Environmental Construction Support					
13.5 1 Regulatory Agency Coordination					
			The second state of the se		
13.5.2 Pre-construction Biological Surveys and Support					
13.5.2 Pre-construction Biological Surveys and Support 13.5.3 Environmental Awareness Trainings					
2000					

SUBCONSULTANT FEE PROPOSAL	WORKSHEET	
COMPANY:	SCOPE OF WORK:	PHASE:
Cogstone	Paletological Reporting	All Phases
PROJECT:	(1) (2016) and (1) (2	DATE:
Replacement of Airport Boulevard Bridge over	r Whitewater River (Br. No. 56C-0020)	November 24, 2020

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Eric Scott	Task Manager	16	@	\$43.06	\$688.96
Kim Scott	Principal Investigator for Paleontology	24	@	\$37.00	\$888.00
Kelly Vreeland	Supervisor	28	@	\$29.00	\$812.00
Logan Freeberg	GIS	16	@	\$27.00	\$432.00
Staff	Technician	16	@	\$25.00	\$400.00
Lindsey Nanry	Technical Editor	16	@	\$30.00	\$480.00
	TOTAL HOUR	RS 116	AL D	DIRECT LABOR	\$3,700.90

MULTIPLIERS

ESCALATION @		(Rates Vary by Phase)		
OVERHEAD @	120.41%	(of Direct Labor + Escalation)		\$4,456.33
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)		
PROFIT (FIXED FEE)	10.0%			\$815.73
			TOTAL MULTIPLIERS	\$5,272.05

OTHER DIRECT COSTS

· · · Billed at Actual Cost · · ·

OTTIER DIRECT GOOTS	or Billed at Actual	Cost				
ITEM		QUANTITY	UNIT	U	NIT COST	AMOUNT
Records Search		1	LS	@	\$290.00	\$290.00
Mileage		200	LS	@	\$0.58	\$115.00
					TOTAL ODC'S	\$405.00

TOTAL ODC'S

\$405.00

TOTAL

\$9,378.01

SUBCONSULTANT FEE PROPOSAL	. WORKSHEET	
COMPANY:	SCOPE OF WORK:	PHASE:
Cogstone	Paletological Reporting	Phase I
PROJECT:		DATE:
Replacement of Airport Boulevard Brid	ge over Whitewater River (Br. No. 56C-0020)	November 24, 2020

	TOTAL HOUR	RS 116	AL DIR	ECT LABOR	\$3,700.9
Lindsey Nanry	Technical Editor	16	@	\$30.00	\$480.0
Staff	Technician	16	@	\$25.00	\$400.0
Logan Freeberg	GIS	16	@	\$27.00	\$432.0
Kelly Vreeland	Supervisor	28	@	\$29.00	\$812.0
Kim Scott	Principal Investigator for Paleontology	24	@	\$37.00	\$888.0
Eric Scott	Task Manager	16	@	\$43.06	\$688.9
PERSONNEL	POSITION	HOURS		RATE	AMOUNT

MULTIPLIERS

ESCALATION @		(of Direct Labor)	
OVERHEAD @	120.41%	(of Direct Labor + Escalation)	\$4,456.33
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE)	10.0%		\$815.73

TOTAL MULTIPLIERS

\$5,272.05

OTHER DIRECT COSTS

· · · Billed at Actual Cost

	ITEM	QUANTITY	UNIT	-	UNIT COST	AMOUNT
Records Search		1	LS	@	\$290.00	\$290.00
Mileage		200	LS	@	\$0.58	\$115.00
					TOTAL ODC'S	\$405.00

TOTAL ODC'S

\$405.00

TOTAL

\$9,378.01

SUBCONSULTANT FEE PROPOSA	_ WORKSHEET	
COMPANY:	SCOPE OF WORK:	PHASE:
Cogstone	Paletological Reporting	Phase II
PROJECT		DATE:
Replacement of Airport Boulevard Brid	dge over Whitewater River (Br. No. 56C-0020)	November 24, 2020

PERSONNEL	POSITION	HOURS RATE AMOUNT
Eric Scott	Task Manager	\$43.06
Kim Scott	Principal Investigator for Paleontology	\$37.00
Kelly Vreeland	Supervisor	\$29.00
Logan Freeberg	GIS	\$27.00
Staff	Technician	\$25.00
Lindsey Nanry	Technical Editor	\$30.00

TOTAL HOURS

'AL DIRECT LABOR

MULTIPLIERS

ESCALATION @		(of Direct Labor)
OVERHEAD @	120.41%	(of Direct Labor + Escalation)
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)
PROFIT (FIXED FEE)	10.0%	

TOTAL MULTIPLIERS

OTHER DIRECT COSTS

· · · Billed at Actual Cost · · ·

	Billed at Actual Cost				
ITEM	THE SERVICE OF THE	QUANTITY	UNIT	UNIT COST	AMOUNT
Records Search	***		LS	\$290.00	
Mileage			LS	\$0.58	

TOTAL		

SUBCONSULTANT FEE PROPOSAL W	DRKSHEET	
COMPANY:	SCOPE OF WORK:	PHASE:
Cogstone	Paletological Reporting	Phase III
PROJECT:	The second control of the second control of	DATE:
Replacement of Airport Boulevard Bridge	over Whitewater River (Br. No. 56C-0020)	November 24, 2020

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Eric Scott	Task Manager		\$43.06	
Kim Scott	Principal Investigator for Paleontology		\$37.00	
Kelly Vreeland	Supervisor		\$29.00	
Logan Freeberg	GIS		\$27.00	
Staff	Technician		\$25.00	
Lindsey Nanry	Technical Editor		\$30.00	
			**	
	TOTAL HOUR	S	AL DIRECT LABOR	

MULTIPLIERS

ESCALATION @		(of Direct Labor)	
OVERHEAD @	120.41%	(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
Records Search			LS	\$290.00	
Mileage			LS	\$0.58	

TOTAL	

SUBCONSULTANT FEE PROPOSAL	WORKSHEET	
COMPANY:	SCOPE OF WORK:	PHASE:
Cogstone	Paletological Reporting	Phase IV
PROJECT:		DATE:
Replacement of Airport Boulevard Brid	ge over Whitewater River (Br. No. 56C-0020)	November 24, 2020

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Eric Scott	Task Manager		\$43.06	
Kim Scott	Principal Investigator for Paleontology		\$37.00	
Kelly Vreeland	Supervisor		\$29.00	
Logan Freeberg	GIS		\$27.00	
Staff	Technician		\$25.00	
Lindsey Nanry	Technical Editor		\$30.00	
	TOTAL HOUR	s	AL DIRECT LABOR	

MULTIPLIERS

ESCALATION @		(of Direct Labor)
OVERHEAD @	120.41%	(of Direct Labor + Escalation)
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)
PROFIT (FIXED FEE)	10.0%	

TOTAL MULTIPLIERS

OTHER DIRECT COSTS

· · · Billed at Actual Cost · · ·

STILL DIRECT COOLS	billed at Actual	0031			
ITE		QUANTITY	UNIT	UNIT COST	AMOUNT
Records Search			LS	\$290.00	
Mileage			LS	\$0.58	

TOTAL	

SUBCONSULTANT MANHOUR WORKSHEET SUMMAR	Y Marie Barrier and the Company of t	THE RESERVE OF THE PARTY OF THE PARTY.
COMPANY	SCOPE OF WORK:	PHASE:
Cogstone	Paletological Reporting	All Phases
PROJECT		DATE:
Replacement of Airport Boulevard Bridge over Whitewater	River (Br. No. 56C-0020)	November 24, 2020

TASK	4,554 MARKE	ggt putting the second	to State of the St	CIS /	TECHNICI	telegger telegraph	* / / / / / Mours
PHASE TOTALS	16	24	28	16	16	16	116
PHASEI	16	24	28	16	16	16	116
PHASEII							
PHASE III							
PHASE IV							

OMPANY.					s	COPE OF WORK			PHASE:			
Cogstone ROJECT		-				Paletological Rep	orting		Phas	se I		
Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)									Nove	ember 24, 20	20	
TASK	/	A CONTRACTOR	Service Servic		Į, į						Hours	00
	\$104.40	\$6071	570 (1)	SILE 46 11	5e0.51	\$157.74	1000	ene monet markour se		The last		
otal Manhours	16	24	28	16	16	16				100	116	
Fask 1 - Project Management		1									T'	
1.1 Project Coordination and Project Team Meetings												
1.2 Monthly Progress Reports				-								
1.3 Progress Schedule												
1.4 Quality Control			-									
1.5 Cost Accounting												
ask 2 - Research and Data Gathering				_		-						
2.1 Collect and Review Existing Information				-								
2.2 Conduct Field Review												
ask 3 - Preliminary Engineering												
3.1 Traffic Studies												
3.2 Preliminary Utility Research and Utility Base Map												
3.3 Permits												
3.4 Surveying and Right of Way Mapping (By County)												
3.5 Preliminary Geotechnical				100								
3.6 Right of Way Requirement Map												
3.7 Preliminary Roadway and Geometric Plans												
3.8 Stage Construction Design												
3.9 Structure Advance Planning Study												
3.10 Preliminary Bridge Design Hydraulic Study (BDHS) Report												
3.11 Plan of Action (POA)					17							
3.11.1 Geotech Scour Analysis												
3.11.2 Structure Scour Analysis				realizable way								
3.11.3 Scour Plan of Action (POA)												
3.12 35% Roadway Plans												
3.13 Preliminary Drainage Report										1		
3.14 Advisory and Mandatory Fact Sheets												
3.15 Engineer's Estimate												
3.16 Preliminary Engineering Report												
ask 4 - Environmental Studies and Documentation												
4.1 Project Initiation												
4 2 Preliminary Environmental Study (PES)												

Cogstone ROJECT: Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)		SCOPE OF WORK: Paletological Reporting									DATE	Phase i					
TASK	/\$	STATE OF THE PERSON OF THE PER	Service of the servic		/2		and the same							Houses	COST		
4.3 Technical Studies																	
4.3.1 Biological Resources																	
4 3.2 Cultural Resources		_					1							1			
4.3.3 Air Quality Impact Assessment (OPTIONAL)																	
4.3.4 Noise Study Report (OPTIONAL)									7.								
4.3 5 Noise Abatement Decision Report (OPTIONAL)																	
4.3.6 Hazardous Waste (Initial Site Assessment)												- 1					
4.3.7 Hazardous Waste Phase II Testing (OPTIONAL)															1		
4.3.8 Water Quality Assessment Report																	
4.3.9 Section 4(f) Evaluation		-															
4.3.10 Paleontological Report	16	24	28	16	16	1	6	-						116	\$ 8,97		
4.3.11 Visual Impact Assessment		***************************************															
4.3.12 Community Impact Assessment (OPTIONAL)																	
4.3.13 Location Hydraulic Study/Floodplain Evaluation Report Summary																	
4.4 Environmental Document																	
4.4.1 Draft Environmental Document																	
4.4.2 Notice of Availability													3 8				
4.4.3 Response to Comments																	
4.4.4 Final Environmental Document																	
4.4.5 Notice of Determination (FINAL)												10,					
4.4.6 NEPA CE				F													

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COMPANY: Cogstone					SCOPE OF W		ortina			PHASE:	e II			
PROJECT·					Taletolo	arcar rep	Jiung			 DATE				
Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)										 Nove	mber 24,	2020		
YASK	/ 4	and the state of t	Service Constitution	/	ç _{irli} çie t	ECRIPERIO E							HOURS	
9.3.2 100% Structure Plans							ŕ	Ú.	ÍΠ	í	í	<u> </u>		-
9.3.3 100% Quanities and Estimate									100					
9.3.4 100% Special Provisions														
9.4 Final Approaved Submittal														
Task 10 - Right of Way Engineering														
10.1 Property Owner Exhibits														
10.2 Right of Way Legal Descriptions and Plats														
10 3 Right of Way Appraisal and Acquisition (By County)	370.07.00													
10 4 RFA Documentation and Approvals														
Task 11 - Environmental Permitting										y2= 1				
11_1 ACOE Section 404 Nationwide Permit														
11.2 RWQCB Section 401 Water Quality Certification														
11.3 CDFW Section 1602 Streambed Alteration Agreement												Į.		
11.4 Coordination and Processing						-		1						

COMPANY Cogstone PROJECT	SCOPE OF WORK Paletological Reporting	PHASE III
Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)		November 24, 2020
TASK		HOURS COS
	\$1044 Stirt \$114 \$6540 \$0001 \$4274	
otal Manhours		
Total Manhours		

COMPANY				SCOPE	OF WORK			PHASE			
Cogstone				Pal	etological Repor	ting		Phase IV			
ROJECT. Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)								Novembe	r 24, 2020		
TASK	/ 3	San San San San San San San San San San	STATE OF STA		Legis de la constantina della constantina della					HOURS	cos
fotal Manhours	5104-40	\$80.71	41071 566	46 SCC 61 17	2.74	sayance via	11,573	agrees and a second			
ask 13 - Construction Support											
13.1 Attend a Pre-Construction Meeting and Site Meetings											
13.2 Administration, Respond to Contractor's RFI & Review Shop Drawings Submittals		1									
13.3 Prepare Construction Change Orders											
13.4 Prepare As-Built Plans											
13,5 Environmental Construction Support											
13.5.1 Regulatory Agency Coordination											
13.5.2 Pre-construction Biological Surveys and Support											
13 5.3 Environmental Awareness Trainings								1			
13.5.4 Environmental Commitment Records (ECR) and Mitigation/Monitoring/Reporting Plan (MMRP), and Compliance Monitoring											
13.5.5 Invasive Species Removal Program										-	

SUBCONSULTANT FEE PROPOSAL WORKSH	EET WAS BEING ON THE WORLD	
COMPANY:	SCOPE OF WORK;	PHASE:
Bargas Environmental Consulting	All Phases	
PROJECT:	DATE:	
Replacement of Airport Boulevard Bridge over Whitewater	March 8, 2021	

	TO	TAL HOURS	434	AL DIF	RECT LABOR	\$17,839.1
Staff	Technical Specialist I		35	@	\$22.30	\$780.5
Staff	Technical Specialist III		160	@	\$32.90	\$5,264.0
Staff	Technical Specialist IV		56	@	\$37.90	\$2,122.4
Marcus England	Technical Specialist V		110	@	\$55.29	\$6,081.9
David Carr	Technical Specialist V		8	@	\$57.69	\$461,5
Coral Fenech	GIS/Mapping Specialist		31	@	\$40.87	\$1,266.9
Johanna Page	Senior Project Manager		8	@	\$55.29	\$442.3
Marcus England	Senior Project Manager		23	@	\$55.29	\$1,271.6
Angela DePaoli	Principal		3	@	\$49.28	\$147.8
PERSONNEL	POSITION		HOURS		RATE	AMOUNT

MULTIPLIERS

ESCALATION @		(Rates Vary by Phase)	
OVERHEAD @	153.57%	(of Direct Labor + Escalation)	\$27,395.54
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE)	10.0%		\$4,523.47

\$31,919.00 TOTAL MULTIPLIERS

OTHER DIRECT COSTS

· · · Billed at Actual Cost · · ·

OTTER DIRECT COOTS	*** Billed at Actual Cost *					
TEM		QUANTITY	UNIT	UI	NIT COST	AMOUNT
Miles		8100	mile	@	\$0.58	\$4,657.50
Loging		24	ea	@	\$144.00	\$3,456.00
Per Diem		24	ea	@	\$55.00	\$1,320.00
				7	TOTAL ODC'S	\$9,433.50

TOTAL \$59,191.62

SUBCONSULTANT FEE PROPOSAL WORKSH	EET WORK ON THE STATE OF THE ST	
COMPANY	SCOPE OF WORK:	PHASE:
Bargas Environmental Consulting	Biological Resources	Phase I
PROJECT		DATE
Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)		March 8, 2021

PERSONNEL.	POSITION		HOURS		RATE	AMOUNT
Angela DePaoli	Principal		3	@	\$49.28	\$147.84
Marcus England	Senior Project Manager		23	@	\$55.29	\$1,271.67
Johanna Page	Senior Project Manager		8	@	\$55.29	\$442.32
Coral Fenech	GIS/Mapping Specialist		31	@	\$40.87	\$1,266.97
David Carr	Technical Specialist V		8	@	\$57.69	\$461.52
Marcus England	Technical Specialist V		110	@	\$55.29	\$6,081.90
Staff	Technical Specialist IV		56	@	\$37.90	\$2,122.40
Staff	Technical Specialist III		160	@	\$32.90	\$5,264.00
Staff	Technical Specialist I		35	@	\$22.30	\$780.50
		TOTAL HOURS	434	'AL DIR	ECT LABOR	\$17,839.12

MULTIPLIERS

ESCALATION @	(of Direct I	_abor)	
OVERHEAD @	153.57% (of Direct I	_abor + Escalation)	\$27,395.54
PAYROLL ADDITIVES @	(of Direct I	_abor + Escalation)	
PROFIT (FIXED FEE)	10.0%		\$4,523.47

TOTAL MULTIPLIERS \$31,919.00

OTHER DIRECT COSTS

· · · Billed at Actual Cost · · ·

	ITEM	HE'S CAN THE	QUANTITY	UNIT	U	NIT COST	AMOUNT
Miles			8100	mile	@	\$0.58	\$4,657.50
Loging			24	ea	@	\$144.00	\$3,456.00
Per Diem			24	ea	@	\$55.00	\$1,320.00
						TOTAL ODC'S	\$9,433,50

TOTAL ODC'S \$9,433.50

TOTAL \$59,191.62

SUBCONSULTANT FEE PROPOSAL WORKSH	EET I - MILLION LE MAN CONTRACTOR LE MANCION LE MAN CONTRACTOR LE MAN CONTRACTOR LE MAN CONTRACTOR LE MAN CONTRACTOR LE MAN CONTRACTOR LE MAN CONTRACTOR LE MAN CONTRACTOR LE MAN CONTRACTOR LE MAN CONTRACTOR LE MANCION LE MANCION LE MANCION LE MANCION LE MANCION LE MANCION LE MANCION LE MANCION L	
COMPANY:	SCOPE OF WORK:	PHASE:
Bargas Environmental Consulting	Biological Resources	Phase II
PROJECT:		DATE:
Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)		March 8, 2021

Coral Fenech David Carr Technical Specialist V Marcus England Technical Specialist V Staff Technical Specialist IV Technical Specialist IV	HOURS RATE AMOUNT
Johanna Page Coral Fenech David Carr Marcus England Staff Technical Specialist V Technical Specialist IV Technical Specialist IV Technical Specialist III	\$49.28
Coral Fenech David Carr Technical Specialist V Marcus England Technical Specialist V Staff Technical Specialist IV Technical Specialist III	\$55.29
David Carr Technical Specialist V Marcus England Technical Specialist V Staff Technical Specialist IV Staff Technical Specialist III	\$55.29
Marcus England Technical Specialist V Staff Technical Specialist IV Staff Technical Specialist III	\$40.87
Staff Technical Specialist IV Staff Technical Specialist III	\$57.69
Staff Technical Specialist III	\$55.29
	\$37.90
Staff Technical Specialist I	\$32.90
	\$22.30

TOTAL HOURS

AL DIRECT LABOR

MULTIPLIERS

ESCALATION @		(of Direct Labor)
OVERHEAD @	153.57%	(of Direct Labor + Escalation)
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)
PROFIT (FIXED FEE)	10.0%	

TOTAL MULTIPLIERS

OTHER DIRECT COSTS

••• Billed at Actual Cost •••

	Dilled at Actual	Cost			
TE CONTRACTOR OF THE	M	QUANTITY	UNIT	UNIT COST	AMOUNT
Miles			mile	\$0.58	
Loging			ea	\$144.00	
Per Diem			ea	\$55.00	
				TOTAL ODC'S	

TOTAL	

SUBCONSULTANT FEE PROPOSAL WORKSH	EET NAMED TO SELECT ASSESSMENT AS	
COMPANY:	SCOPE OF WORK:	PHASE:
Bargas Environmental Consulting	Biological Resources	Phase III
PROJECT:		DATE:
Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)		March 8, 202

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Angela DePaoli	Principal		\$49.28	
Marcus England	Senior Project Manager		\$55.29	
Johanna Page	Senior Project Manager		\$55.29	
Coral Fenech	GIS/Mapping Specialist		\$40.87	
David Carr	Technical Specialist V		\$57.69	
Marcus England	Technical Specialist V		\$55.29	
Staff	Technical Specialist IV		\$37.90	
Staff	Technical Specialist III		\$32.90	
Staff	Technical Specialist I		\$22.30	
	desidente reconstituit de la constituit de			

TOTAL HOURS

AL DIRECT LABOR

MULTIPLIERS

ESCALATION @		(of Direct Labor)
OVERHEAD @	153.57%	(of Direct Labor + Escalation)
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)
PROFIT (FIXED FEE)	10.0%	

TOTAL MULTIPLIERS

OTHER DIRECT COSTS

· Billed at Actual Cost · · ·

3,511,521	ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Miles			mile	\$0.58	
Loging			ea	\$144.00	
Per Diem			ea	\$55.00	
				TOTAL ODC'S	

TOTAL	

SUBCONSULTANT FEE PROPOSAL WORKSH	EET	
COMPANY:	SCOPE OF WORK:	PHASE;
Bargas Environmental Consulting	Biological Resources	Phase IV
ROJECT	· · · · · · · · · · · · · · · · · · ·	DATE:
Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)		

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Angela DePaoli	Principal		\$49.28	
Marcus England	Senior Project Manager		\$55.29	
Johanna Page	Senior Project Manager		\$55.29	
Coral Fenech	GIS/Mapping Specialist		\$40.87	
David Carr	Technical Specialist V		\$57.69	
Marcus England	Technical Specialist V		\$55.29	
Staff	Technical Specialist IV		\$37.90	
Staff	Technical Specialist III		\$32.90	
Staff	Technical Specialist I		\$22.30	
		TOTAL HOURS	AL DIRECT LABOR	

MULTIPLIERS

ESCALATION @		(of Direct Labor)
OVERHEAD @	153.57%	(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
Miles			mile	\$0.58	
Loging			ea	\$144.00	
Per Diem			ea	\$55.00	
				TOTAL ODC'S	

TOTAL	

SUBCONSULTANT MANHOUR WORKSHEET SUMMARY		
COMPANY	SCOPE OF WORK	PHASE:
Bargas Environmental Consulting	All Phases	
PROJECT		DATE
Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)	March 8, 2021	

TASK	\$137.46 8	Action of the second	SEMORY	Editor of the Control	technic	A LEGICAL STATE OF THE STATE OF	A Special Control	ight children \$91.77	Ether State of Secretary	HOURS
PHASE TOTALS	3	23	8	31	8	110	56	160	35	434
PHASE (3	23	8	31	8	110	56	160	35	434
PHASE II										
PHASE III										
PHASE IV										

COMPANY: Bargas Environmental Consulting						COPE OF WORK				PHASE	se l					
ROJECT	***************************************					Diviogioui i	(00001000			DATE						
Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)										Mare	ch 8, 2021					
TANK	/	ar la	people's		Spring Spring	S Lite	S. Section	SCA RELA	Service of the servic	it it is it						
	\$100 We	\$154.72	8154.27	114.10	5100.91	5 (54 21	\$105.71	S#1_77								
otal Manhours	3	23	8	31	8	110	56	160	35			434				
ssk 1 - Project Management										T	T		T			
1 1 Project Coordination and Project Team Meetings																
1.2 Monthly Progress Reports				************									1			
1.3 Progress Schedule													_			
1.4 Quality Control			_										_			
1.5 Cost Accounting				-	_	3				_			-			
sk 2 - Research and Data Gathering										_	-	_	-			
2.1 Collect and Review Existing Information													-			
2.2 Conduct Field Review			_		-					_			-			
sk 3 - Preliminary Engineering				_	_					_	-	-	+			
3.1 Traffic Studies			-							_	-	-	+			
3.2 Preliminary Utility Research and Utility Base Map	-		-	-						_	-	_	-			
3 3 Permits	-			_						_		_	-			
3.4 Surveying and Right of Way Mapping (By County)			_	-	-					_		_				
3 5 Preliminary Geotechnical				-									-			
3.6 Right of Way Requirement Map				_				_				_	_			
3.7 Preliminary Roadway and Geometric Plans								_		_			-			
3.8 Stage Construction Design													-			
3.9 Structure Advance Planning Study				-				_		-		_	-			
3.10 Hydrologic, Hydraulic and Scour Studies	-										ļ	_	1			
3 11 Plan of Action (POA)																
3.11.1 Geotech Scour Analysis					M-1875								-			
3.11 2 Structure Scour Analysis																
3.11.3 Scour Plan of Action (POA)																
3.12 35% Roadway Plans					00000											
3.13 Preliminary Hydrology/Drainage Report																
3.14 Advisory and Mandatory Fact Sheets				-												
3.15 Engineer's Estimate																
3.16 Preliminary Engineering Report																
sk 4 - Environmental Studies and Documentation																
4 1 Project Initiation																
4 2 Preliminary Environmental Study (PES)																
4.3 Technical Studies																
4.3.1 Biological Resources	3	23	8	31	8	110	56	160	35			434	\$ 49,7			

MEANY. Sargas Environmental Consulting DECT					SCOPE OF WOR				PHASE				
Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)									DATE:	ch 8, 2021			
TASK	/*				And And And		St. Jake					Hours	cos
4.3.2 Cultural Resources													
4.3.3 Air Quality Impact Assessment (OPTIONAL)			-		December 1								
4.3.4 Noise Study Report (OPTIONAL)			***************************************				-						
4.3.5 Noise Abatement Decision Report (OPTIONAL)												****************	
4.3.6 Hazardous Waste (Initial Site Assessment)													
4.3.7 Hazardous Waste Phase II Testing (OPTIONAL)		1											
4.3.8 Water Quality Assessment Report			1										
4.3.9 Section 4(f) Evaluation			-	İ							-		
4.3.10 Paleontological Report			1										
4.3.11 Visual Impact Assessment			1										
4.3.12 Community Impact Assessment (OPTIONAL)													
4 Environmental Document								 					
4.4.1 Draft Environmental Document								- 1					
4.4.2 Notice of Availability			-	To the second second		-							
4.4.3 Response to Comments													
4.4.4 Final Environmental Document													

COMPANY Bargas Environmental Consulting			SCOPE OF WOR				PHASE	. 11			
PROJECT	10.444		Biological I	Resources	_		DATE	e II			
Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)	OTTO THE OWN MANAGEMENT OF THE OWN							h 8, 2021			
TASK			A STATE OF S		CHILD S	A STREET				HOURS	cost
Fotal Manhours	\$19#.46 \$154.22 \$	5114 00 S	60.91 5054.22 8	106.77. 391.71	S62.20						1
Fask 5 - Project Management						7					
5.1 Project Coordination and Project Team Meetings					+						
5.2 Monthly Progress Reports											
5.3 Progress Schedule											
5.4 Quality Control									-		
5.5 Cost Accounting	1										
5.6 Permits							-				
ask 6 - Geotechnical Design Report					1		_				
6.1 Geotechnical Field Investigations		-	- I - I - I - I - I - I - I - I - I - I								
6.2 Laboratory Testing					1						
6.3 Geotechnical Engineering Analysis							100				
6.4 Geotechnical Report											
Fask 7 - Storm Water											
7.1 Drainage Report											
7.2 Update Bridge Design Hydraulic Study Report											
7.3 NPDES Data From											
7.4 Storm Water Pollution Prevention Plan (SWPPP)											
Fask 8 - Utility Coordination											
8.1 Utility Coordination							Sei-mone.				
Fask 9 - Final Design	1										
9 1 65% Plans, Specification & Estimates											
9.1.1 65% Roadway Plans											
9.1.2 Bridge Type Selection											
9.1.3 65% Unchecked Structure Plans									- 9		
9.1.4 65% Quantities and Estimate			I								
9.2 95% Plans, Specification & Estimates	- In its answer				-						
9.2.1 95% Roadway Plans		***************************************									
9.2.2 Bridge Design Independent Check					-						-
9.2.3 95% Structure Plans					M						
9 2.4 95% Quanities and Estimate											
9.2.3 95% Draft Special Provisions											-

COMPANY						SCOPE OF W					PHASE:			
Bargas Environmental Consulting						Biologic	al Resour	ces			Phas	e II		
Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)											DATE.	h 8, 2021		
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TASK		1 . 1	150	100	THE ST	131	Set /		/ 38	131			/ /	
	/ /		31/	5 3 m	Service Control		A SALO			*//				
	/ *	1 4	14	1 4	/ *	/ *	1 4	/ 4	/ *				HOURS	COST
9.3.1 100% Roadway Plans (Including Cross Sections)														
9 3.2 100% Structure Plans												1		
9.3,3 100% Quanities and Estimate														
9.3.4 100% Special Provisions					-									
9,4 Final Approaved Submittal														
Task 10 - Right of Way Engineering														
10.1 Property Owner Exhibits														
10.2 Right of Way Legal Descriptions and Plats														
10.3 Right of Way Appraisal and Acquisition (By County)														
10,4 RFA Documentation and Approvals		-												
Task 11 - Environmental Permitting				F-91-1-1-1-1										
11.1 ACOE Section 404 Nationwide Permit									Markey d					
11.2 RWQCB Section 401 Water Quality Certification									el la					
11.3 CDFW Section 1602 Streambed Alteration Agreement		-		-										
11.4 Coordination and Processing			7244444		_									

COMPANY:	SCOPE OF WORK	PHASE
Bargas Environmental Consulting	Biological Resources	Phase III
ROJECT: Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)		DATE:
Replacement of Airport Bodievard Bridge over Whitewater River (Br. No. 58C-0020)		March 8, 2021
TASK		
		HOURS COS'
	\$137.40 SMA-22 \$1(4.72 \$1)\(\frac{1}{2}\) \$\(\frac{1}{2}\) HOURS COST	
	\$137.46 \$154.42 \$114.22 \$114.00 \$169.6° \$154.27 \$105.71 \$167.77 \$52.20	HOURS COS
Total Manhours	\$197.46 \$18.4.2 \$11.4.22 \$11.4.00 \$160.0° \$154.27 \$106.71 \$30.77 \$62.20	HOURS COS
Total Manhours Task 12 - Bid and Award Support 12.1 Attend a Pre-Bid Meeting	\$137.46 \$18.4.2 \$11.4.22 \$11.4.00 \$160.0° \$154.27 \$105.71 \$30.77 \$52.20	HOURS COS

Bargas Environmental Consulting ROJECT: Replacement of Airport Boulevard Bridge over Whitewater River (Br. No. 56C-0020)		SCOPE OF WORK Biological Reso	irces	DA	ASE Phase IV IE March 8, 2021	
TASK.		a steelist to the control of		ST. STEERING		
otal Manhours ask 13 - Construction Support	\$114 to \$16	\$154.27 \$100.7	1 20177, 16220			HOURS C
13.1 Attend a Pre-Construction Meeting and Site Meetings						
13.2 Administration, Respond to Contractor's RFI & Review Shop Drawings Submittals				-		
13.3 Prepare Construction Change Orders						
13.4 Prepare As-Built Plans						
13.5 Environmental Construction Support						
13.5 1 Regulatory Agency Coordination		- h				
13.5.2 Pre-construction Biological Surveys and Support		-	-			
13.5.3 Environmental Awareness Trainings						
13.5.4 Environmental Commitment Records (ECR) and Mitigation/Monitoring/Reporting Plan (MMRP), and Compliance Monitoring						

EXHIBIT 10-O2 CONSULTANT CONTRACT DBE COMMITMENT

1. Local Agency: Riverside (County		2. Contract DBE Goal:	18%			
3. Project Description: Replace	ement of Airport Bl	vd Bridge over Whitewater F	River				
4. Project Location: Riverside (County and City of (Coachella					
	n Engineering	6. Prime Certifie	od DRE: □ 7 Total Cont	tract Award Amount: 1,	961,701.59		
8. Total Dollar Amount for ALL S	Subconsultants: S	375,982.39	9. Total Number of ALL				
Total Bollar / tillounit for AEE C	abconsultants.		9. Total Number of ALL	Subconsultants.			
10. Description of Work, Serv Supplied	ice, or Materials	11. DBE Certification Number	12. DBE Conta	ict Information	13. DBE Dollar Amount		
Geotechnical Services		6956	Earth Mechanics, Inc. 13 B, Foutain Valley, CA 927		\$176,551.09		
Hydrologic/Hydraulic		30066	WRECO 1243 Alpine Ro Creek, CA 94596 916-7		\$110,197.28		
National Environmental Study, Fo	ocused Surveys	41165		argas Env. Consulting 3604 Fair Oaks Blvd, e 180, Sacramento, CA 95864 916-993-9218			
Paleontological Identification Rep Paleontological Resource Report		33150	Cogstone Resource Mana Taft Ave, Orange, CA 928		\$9,378.01		
Local Agency	y to Complete this	Section					
20. Local Agency Contract	Umer Ahme	ed	1		\$ 355,318.00		
Number: 21. Federal-Aid Project Number:	BRLS 5956	5 (231)	14. TOTAL CLAIMED I	DBE PARTICIPATION			
22. Contract Execution	April 20, 2021				18.00 %		
Local Agency certifies that all DE this form is complete and accura	BE certifications are te.	valid and information on		DBE firms being claimed confirmation of each liste			
Umer Ahmed		4/9/2021		4/7/2021			
23. Local Agency Representative	e's Signature 2	4. Date	15. Preparer's Signatur	e 16. Date			
Umer Ahmed		951-955-1637	Juann Ramos, PE	916-858			
25. Local Agency Representat		6. Phone	17. Preparer's Name	18. Phon	e		
Engineering Project M	0		Project Manager				
27. Local Agency Representat	ive's Title		19. Preparer's Title				

DISTRIBUTION: 1. Original – Local Agency
2. Copy – Caltrans District Local Assistance Engineer (DLAE). Failure to submit to DLAE within 30 days of contract execution may result in de-obligation of federal funds on contract.

ADA Notice: For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

INSTRUCTIONS - CONSULTANT CONTRACT DBE COMMITMENT

CONSULTANT SECTION

- 1. Local Agency Enter the name of the local or regional agency that is funding the contract.
- 2. Contract DBE Goal Enter the contract DBE goal percentage as it appears on the project advertisement.
- **3. Project Description -** Enter the project description as it appears on the project advertisement (Bridge Rehab, Seismic Rehab, Overlay, Widening, etc).
- 4. Project Location Enter the project location as it appears on the project advertisement.
- 5. Consultant's Name Enter the consultant's firm name.
- **6. Prime Certified DBE** Check box if prime contractor is a certified DBE.
- 7. Total Contract Award Amount Enter the total contract award dollar amount for the prime consultant.
- **8. Total Dollar Amount for ALL Subconsultants** Enter the total dollar amount for all subcontracted consultants. SUM = (DBEs + all Non-DBEs). Do not include the prime consultant information in this count.
- 9. Total number of <u>ALL</u> subconsultants Enter the total number of all subcontracted consultants. SUM = (DBEs + all Non-DBEs). Do not include the prime consultant information in this count.
- 10. Description of Work, Services, or Materials Supplied Enter description of work, services, or materials to be provided. Indicate all work to be performed by DBEs including work performed by the prime consultant's own forces, if the prime is a DBE. If 100% of the item is not to be performed or furnished by the DBE, describe the exact portion to be performed or furnished by the DBE. See LAPM Chapter 9 to determine how to count the participation of DBE firms.
- 11. DBE Certification Number Enter the DBE's Certification Identification Number. All DBEs must be certified on the date bids are opened.
- **12. DBE Contact Information** Enter the name, address, and phone number of all DBE subcontracted consultants. Also, enter the prime consultant's name and phone number, if the prime is a DBE.
- 13. DBE Dollar Amount Enter the subcontracted dollar amount of the work to be performed or service to be provided. Include the prime consultant if the prime is a DBE. See LAPM Chapter 9 for how to count full/partial participation.
- **14. Total Claimed DBE Participation** \$: Enter the total dollar amounts entered in the "DBE Dollar Amount" column. %: Enter the total DBE participation claimed ("Total Participation Dollars Claimed" divided by item "Total Contract Award Amount"). If the total % claimed is less than item "Contract DBE Goal," an adequately documented Good Faith Effort (GFE) is required (see Exhibit 15-H DBE Information Good Faith Efforts of the LAPM).
- 15. Preparer's Signature The person completing the DBE commitment form on behalf of the consultant's firm must sign their name.
- **16.** Date Enter the date the DBE commitment form is signed by the consultant's preparer.
- 17. Preparer's Name Enter the name of the person preparing and signing the consultant's DBE commitment form.
- 18. Phone Enter the area code and phone number of the person signing the consultant's DBE commitment form.
- 19. Preparer's Title Enter the position/title of the person signing the consultant's DBE commitment form.

LOCAL AGENCY SECTION

- 20. Local Agency Contract Number Enter the Local Agency contract no linear or identifier.
- 21. Federal-Aid Project Number Enter the Federal-Aid Project Number.
- 22. Contract Execution Date Enter the date the contract was executed.
- 23. Local Agency Representative's Signature The person completing this section of the form for the Local Agency must sign their name to certify that the information in this and the Consultant Section of this form is complete and accurate.
- 24. Date Enter the date the DBE commitment form is signed by the Local Agency 's presentative.
- **25.** Local Agency Representative's Name Enter the name of the Local Agency Fe resentative certifying the consultant's DBE commitment form.
- 26. Phone Enter the area code and phone number of the person signing the cover lant's DBE commitment form.
- 27. Local Agency Representative Title Enter the position/title of the Local A ency Representative certifying the consultant's DBE commitment form.