

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



ITEM: 3.16
(ID # 21192)

MEETING DATE:
Tuesday, March 14, 2023

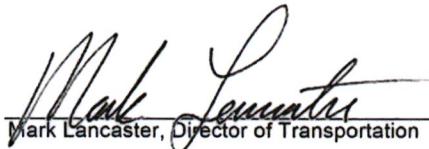
FROM : TLMA-TRANSPORTATION:

SUBJECT: TRANSPORTATION AND LAND MANAGEMENT AGENCY/TRANSPORTATION:
Approval of Amendment 2 to the Engineering Services Agreement by and between the County of Riverside and Kleinfelder Group, Inc. for the Replacement of the Mission Boulevard Bridge at Santa Ana River. Districts 1 and 2. [\$1,530,576 Total Amendment Cost, \$6,225,585 Total Cost - Federal Funds 88.53%, City of Jurupa Valley 4.93%, and City of Riverside 6.54%]

RECOMMENDED MOTION: That the Board of Supervisors:

1. Approve Amendment 2 to the Engineering Services Agreement between the County of Riverside and Kleinfelder Group Inc. for the Replacement of the Mission Boulevard Bridge at Santa Ana River in the amount of \$1,530,576 for FY 22/23-25/26; and
2. Authorize the Chairman of the Board to execute the same.

ACTION:Policy


Mark Lancaster, Director of Transportation 2/9/2023

MINUTES OF THE BOARD OF SUPERVISORS

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

Ayes: Jeffries, Spiegel, Washington and Gutierrez
Nays: None
Absent: Perez
Date: March 14, 2023
xc: Trans.

Kimberly A. Rector
Clerk of the Board

By: 
Deputy

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

FINANCIAL DATA	Current Fiscal Year:	Next Fiscal Year:	Total Cost:	Ongoing Cost
COST	\$ 530,576	\$ 600,000	\$ 1,530,576	\$ 0
NET COUNTY COST	\$ 0	\$ 0	\$ 0	\$ 0
SOURCE OF FUNDS: Federal Highway Bridge Program Funds 88.53%; City of Jurupa Valley 4.93% and City of Riverside 6.54%. There are no General Funds used in this project.			Budget Adjustment: No	
			For Fiscal Year: 22/23 - 25/26	

C.E.O. RECOMMENDATION: Approve

BACKGROUND:

Summary

The County of Riverside (County) in cooperation with the cities of Jurupa Valley and Riverside are proposing to replace the existing Mission Boulevard Bridge over the Santa Ana River (PROJECT), with a new bridge to enhance safety and improve traffic circulation. The Mission Boulevard Bridge is located within the City of Jurupa Valley and the City of Riverside near Mount Rubidoux.

On November 3, 2015, Agenda Item 3.23, the County Board of Supervisors executed an Engineering Services Agreement for the Replacement of the Mission Boulevard Bridge over the Santa Ana River, between the County and Kleinfelder Group, Inc. (AGREEMENT) to complete the preliminary engineering and environmental clearance for this PROJECT. The California Environmental Quality Act (CEQA) document was adopted and approved on December 11, 2018. The National Environmental Policy Act (NEPA) document was adopted and approved on July 24, 2019.

On September 24, 2019, Agenda Item 3.33, the County Board of Supervisors approved Amendment 1 of the AGREEMENT. Amendment 1 provides the terms and conditions, scope of work, and schedule and budget for the performance of remaining professional and technical services necessary to complete the plans, specifications and estimates suitable for awarding a contract to construct the PROJECT.

During the development of the plans the United States Army Corps of Engineers (USACE) commenced construction of the Levee Rehabilitation in the Santa Ana River adjacent to the PROJECT. Construction of the Levee Rehabilitation project is expected to continue until 2026. In order to obtain the necessary regulatory permits from USACE to construct the PROJECT, and to minimize impacts on both concurring projects, additional engineering and environmental tasks, that were not scoped in the AGREEMENT or in Amendment 1, must be performed.

Amendment 2 of the Engineering Services Agreement will facilitate the additional engineering and environmental tasks needed to complete the project. These tasks include ongoing

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

coordination with USACE and the Riverside County Flood Control and Water Conservation District for both projects in the river, such as construction scheduling and determining the responsibilities for on-site and off-site mitigation of habitat relocation. Amendment 2 tasks will also include updating Mission Boulevard bridge plans and specifications to comply with the new USACE conditions required to obtain a Section 408 permit that allows the construction of the PROJECT within their jurisdiction.

Amendment No. 2 also provides the funding to make the necessary revisions. This Amendment No. 2 will increase the funding as follows:

Original authorization	\$1,694,939
Authorized by Amendment No. 1	\$3,000,070
Authorized by Amendment No. 2	<u>\$1,530,576</u>
Total	\$6,225,585

Amendment 2 to the Engineering Services Agreement provides the terms, conditions, and a detailed scope of work including the negotiated fee of \$1,530,576 for engineering services and environmental work required to complete the work of design through construction.

Impact on Residents and Businesses

The Mission Boulevard bridge replacement project will improve vehicular traffic circulation and safety and will provide efficient access for motorists, residents, businesses, pedestrians, and emergency vehicles in the area. 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 Amendment 2 Scope of Work is \$1,530,576. It will be funded with 88.53% of federal HBP funds and with 11.47% of local matching funds from the City of Jurupa Valley and the City of Riverside.

Work Order No.: B3-0528

Contract History and Price Reasonableness

The consultant's fee is consistent with consultant work performed for other county projects of similar scope and complexity.

ATTACHMENTS:

Vicinity Map
Amendment 2

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


Jason Farin, Principal Management Analyst 3/7/2023


Kristine Bell-Valdez, Supervising Deputy County Counsel 3/6/2023


Ronak Patel, Deputy County Counsel 3/7/2023

AMENDMENT NO. 2

TO THE ENGINEERING SERVICES AGREEMENT

FOR REPLACEMENT OF THE MISSION BOULEVARD BRIDGE AT SANTA ANA RIVER

(BR. NO. 56C-0071)

BETWEEN COUNTY OF RIVERSIDE • TRANSPORTATION DEPARTMENT

AND THE KLEINFELDER GROUP, INC.

THIS AMENDMENT NO. 2 TO THE ENGINEERING SERVICES AGREEMENT FOR REPLACEMENT OF THE MISSION BOULEVARD BRIDGE AT SANTA ANA RIVER (hereinafter "Amendment No. 2") is made and entered into as of the 14th day of March, 2023, by and between the County of Riverside, a political subdivision of the State of California, (hereinafter the "COUNTY") and The Kleinfelder Group, Inc., a California corporation, (hereinafter "ENGINEER").

RECITALS

A. COUNTY and ENGINEER have entered into an agreement entitled "Engineering Services Agreement for Replacement of the Mission Boulevard Bridge at Santa Ana River (Bridge No. 56C-0071) between County of Riverside • Transportation Department and The Kleinfelder Group, Inc." that is dated November 3, 2015, Agenda Item 3.23 (hereinafter "Agreement"). The Agreement provided the terms and conditions, scope of work, schedule, and budget for the performance of professional and technical services to be performed by ENGINEER for the Replacement of the Mission Boulevard Bridge at Santa Ana River (hereinafter "Project"). The services to be performed by ENGINEER is set out to be accomplished in four (4) phases. Phase I of the Project included the preparation of a preliminary engineering report and the environmental documentation to environmentally clear the Project including widening and reconstruction of the approach roadways connecting to the new bridge. ENGINEER could only proceed with Phase II, Phase III, and Phase IV of the Project upon written authorization of COUNTY.

B. COUNTY and ENGINEER have entered into an amendment entitled "Amendment 1 to Engineering Services Agreement for Replacement of the Mission Boulevard Bridge at Santa Ana River (Bridge No. 56C-0071) Between County of Riverside Transportation Department And Kleinfelder Group Inc." that was executed on September 24, 2019, Agenda Item 3.33 (hereinafter "Amendment No. 1"). Amendment No. 1 authorized Phase II, Phase III, and Phase IV of the Project. ENGINEER was to complete the plans, specifications, and cost estimate (PS&E) in Phase II, provide construction bidding and award

MAR 14 2023 3.16

1 support in Phase III, and design support during construction in Phase IV.

2 C. Additional engineering and environmental tasks not identified in the Agreement and Amendment No. 1 are
3 needed in order to obtain the regulatory permits and finalize the PS&E package for this Project.

4 D. The parties desire to once again amend the Agreement to modify the scope of services provided by the
5 ENGINEER and increase the contract budget.

6 E. This Amendment No. 2 provides additional funding to make the necessary revisions to complete additional
7 engineering and environmental tasks. This Amendment No. 2 will increase the funding as follows:

8	Original Authorization	\$1,694,939
9	Authorized by Amendment No. 1	\$3,000,070
10	<u>Authorized by Amendment No. 2</u>	<u>\$1,530,576</u>
11	Revised Total Authorized	\$6,225,585

12
13 **AGREEMENT**

14 NOW, THEREFORE, in consideration of the mutual covenants hereinafter contained, the parties agree as follows:

15 1. Appendix A is amended to include the additional services as described in the attached Scope of Services
16 entitled "AMENDMENT 2 • APPENDIX 2A • SCOPE OF SERVICES" attached hereto and incorporated
17 herein.

18 3. Article VI • Compensation and Appendix C • Article CV • Cost Proposal are amended to increase the
19 contract not to exceed amount by \$1,530,576 for a total not to exceed amount of \$6,225,585 in accordance
20 with the attached Fee Proposal entitled "AMENDMENT 2 • APPENDIX 2C • REPLACEMENT OF MISSION
21 BOULEVARD BRIDGE AT SANTA ANA RIVER (BR. NO. 56C-0071) FEE PROPOSAL" attached hereto
22 and incorporated herein.

23 4. Except to the extent specifically modified or amended hereunder, all of the terms, covenants and conditions
24 of the Agreement and Amendment No. 1 shall remain in full force and effect between the parties hereto.

25 IN WITNESS HEREOF, the parties hereto have caused this Amendment No. 2 to the Agreement to be duly executed
26 this day and year first written above.

1 **APPROVALS**

2 **COUNTY** Approvals

3 RECOMMENDED FOR APPROVAL:

4
5  Dated: 3-2-23

6
7 MARK LANCASTER
8 Director of Transportation

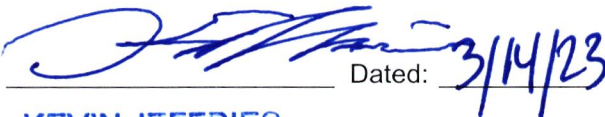
9
10 APPROVED AS TO FORM:

11 County Counsel

12  Dated: 3/7/23

13
14 Danielle Maland
15 Deputy County Counsel

16
17 APPROVAL BY THE BOARD OF SUPERVISORS

18
19  Dated: 3/14/23

20
21 **KEVIN JEFFRIES**
22 PRINTED NAME
23 Chairman, Riverside County Board of Supervisors

24 ATTEST:

25  Dated: 3/14/23

26
27 KIMBERLY RECTOR
28 Clerk of the Board (SEAL)

ENGINEER Approvals

ENGINEER:

 Dated: 03/01/2023

John Moossazadeh
PRINTED NAME
Senior Vice President
TITLE

ENGINEER:

_____ Dated: _____

PRINTED NAME

TITLE

CERTIFICATE OF CORPORATE SECRETARY

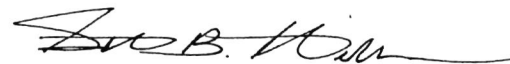
I hereby certify that I am the duly elected and acting Secretary of Kleinfelder, Inc. (the “Corporation”), a California corporation duly organized, validly existing and in good standing.

Pursuant to a resolution duly, validly, and lawfully adopted on February 10, 2022, by the Board of Directors of Kleinfelder Holdings, LLC (“Board”) wherein the Board delegated authority to the Secretary to execute certificates of authority for the Corporation:

RESOLVED, that John Moossazadeh, Vice President and Area Manager, is hereby authorized to execute and deliver, in the name of and on behalf of the Corporation, such contracts, agreements and other instruments between the Corporation and the County of Riverside (the “County”) as are necessary for the Corporation to provide services to the County; and

RESOLVED further, that this resolution is effective as of the date set forth below and shall remain in full force and effect until revoked by action of the Board.

IN WITNESS WHEREOF, I have subscribed my name and affixed the seal of the Corporation, this 1st day of March 2023.



Scott B. Hillman
Secretary



APPENDIX 2A • SCOPE OF SERVICES

SCOPE OF SERVICES • TABLE OF CONTENTS

ARTICLE AI • INTRODUCTION	A-1
A. STANDARDS	A-2
B. KEY PERSONNEL	A-2
C. COUNTY RESPONSIBILITIES	A-2
ARTICLE AII • PROJECT ADMINISTRATION	A-2
A. DELIVERABLES	A-2
ARTICLE AIII • PLANNING AND PROJECT DEVELOPMENT	A-4
A. RESEARCH AND DATA GATHERING	A-4
B. PROJECT DEVELOPMENT TEAM	A-4
C. PERMITS	A-5
D. DESIGN SURVEYS	A-5
E. FINAL DESIGN DRAINAGE AND BRIDGE HYDRAULICS REPORTS	A-5
F. STORM WATER POLLUTION PREVENTION PLAN	A-5
G. PHASE II SITE ASSESSMENT	A-5
H. FINAL GEOTECHNICAL INVESTIGATION AND DESIGN	A-6
Geotechnical Task 1: Materials Report	A-6
Geotechnical Task 2: Geotechnical Design Report (including Field Exploration and Laboratory Testing) and Foundation Report for the PS&E Phase	A-6
I. FINAL ARCHITECTURAL DETAILS AND VISUAL SIMULATIONS	A-8
J. U.S. ARMY CORPS OF ENGINEERS SECTION 408 PERMIT	A-8
J-1. U.S. ARMY CORPS OF ENGINEERS SECTION 408 PERMIT FOR THE FIELD INVESTIGATIONS	A-9
K. FINAL RIGHT OF WAY REQUIREMENTS EXHIBIT	A-9
L. UTILITY COORDINATION	A-9
M. MISCELLANEOUS DESIGN SUPPORT	A-9
U.S. Army Corps of Engineers Levee Rehabilitation Project Coordination	A-9
Design Exceptions	A-10
Final Traffic Management Plan (TMP)	A-10
Constructability Review – Design Support	A-10
ARTICLE AIV • STRUCTURES	A-10
A. STRUCTURAL DESIGN AND CALCULATIONS	A-10
B. INDEPENDENT CHECK REVIEW AND QUALITY CONTROL	A-10
C. STRUCTURE SPECIFICATIONS AND ESTIMATES	A-10
D. STRUCTURE PLANS, SPECIFICATONS, AND ESTIMATES	A-11
Initial Structure PS&E (65% Unchecked Plans)	A-11

Intermediate Structure PS&E (90% Checked Plans)	A-11
Draft Final Structure PS&E (95% Checked Plans)	A-11
Final Structure PS&E (100% Checked Plans)	A-11
Redesign Abutment for Increased Concrete Cover	A-11
ARTICLE AV • ROADWAY	A-12
A. BASIC ROADWAY PLANS	A-12
B. CALCULATIONS	A-12
C. DRAINAGE PLANS	A-12
D. TRAFFIC PLANS	A-13
E. MISCELLANEOUS PLANS	A-13
Conceptual Temporary Creek Diversion Plan	A-13
F. INTERMEDIATE REVIEWS	A-14
G. SPECIFICATIONS AND ESTIMATE	A-14
H. QUALITY CONTROL	A-14
I. DRAFT PLANS, SPECIFICATIONS, AND ESTIMATE (95% COMPLETE)	A-14
J. FINAL PLANS, SPECIFICATIONS, AND ESTIMATE (100% COMPLETE)	A-14
ARTICLE AVI • ENVIRONMENTAL PERMITS AND MITIGATION PLAN	A-15
A. ENVIRONMENTAL TASK 1: FEDERAL CLEAN WATER ACT (CWA) SECTION 404 NATIONWIDE PERMIT AUTHORIZATION	A-15
Santa Ana River Woollystar Survey	A-15
Least Bell's Vireo Survey	A-15
B. ENVIRONMENTAL TASK 2: CWA SECTION 401, WATER QUALITY CERTIFICATION	A-16
C. ENVIRONMENTAL TASK 3: CALIFORNIA FISH AND GAME CODE SECTION 1602, LAKE OR STREAMBED ALTERATION AGREEMENT	A-17
D. ENVIRONMENTAL TASK 4: ON-SITE MITIGATION PLAN	A-17
E. ENVIRONMENTAL TASK 5: COORDINATION WITH CITY OF RIVERSIDE AND SUCKER HABITAT CONSERVATION PLAN PARTIES FOR OFF-SITE MITIGATION	A-17
Santa Ana Sucker Mitigation, Monitoring and Protection Plan	A-17
F. ENVIRONMENTAL TASK 6: OFF-SITE BAT HABITAT COORDINATION AND DESIGN	A-19
Bat Mitigation, Monitoring and Protection Plan	A-19
Nighttime Bat Survey	A-19
Installation of Bat Exclusion Material Support and Off-site Bat Roosting Habitat Support	A-20
G. ENVIRONMENTAL TASK 7: OFF-SITE MITIGATION PLAN ENVIRONMENTAL LEAD COORDINATION WITH SUBCONSULTANT	A-20
H. ENVIRONMENTAL TASK 8: PALEONTOLOGICAL RESOURCES IMPACT MITIGATION PROGRAM (PRIMP)	A-21
I. ENVIRONMENTAL TASK 9: BURROWING OWL SURVEY AND RELOCATION PLAN	A-21
J. ENVIRONMENTAL TASK 10: PRECONSTRUCTION NESTING BIRD SURVEY, RELOCATION PLAN, AND BIRD EXCLUSION MATERIAL INSTALLATION SUPPORT	A-21

K. ENVIRONMENTAL TASK 11: NATIVE AMERICAN MONITORING AGREEMENT A-22

ARTICLE AVII • CONSTRUCTION BIDDING PHASE A-22

ARTICLE AVIII • CONSTRUCTION SUPPORT PHASE A-22

ARTICLE AVIV • COMPUTER SERVICES A-22

A. CALCULATIONS..... A-23

B. COMPUTER AIDED DRAFTING AND DESIGN (CADD)..... A-23

ARTICLE AX • QUALITY CONTROL PLAN..... A-23

ARTICLE AXI • ADVANCE CONCEPTUAL ENGINEERING..... A-23

ARTICLE AXII • SHEET LIST..... A-23

APPENDIX 2A – SCOPE OF SERVICES

ARTICLE AI • INTRODUCTION

COUNTY and ENGINEER entered into an agreement entitled “Engineering Services Agreement for Replacement of the Mission Boulevard Bridge at Santa Ana River (Bridge No. 56C-0071) between County of Riverside • Transportation Department and The Kleinfelder Group, Inc.” that is dated November 3, 2015, Agenda Item 3.23 (hereinafter “Agreement”). The Agreement provided the terms and conditions, the scope of work, schedule, and budget for the performance of professional and technical services to be performed by ENGINEER for the Replacement of the Mission Boulevard Bridge at Santa Ana River (hereinafter “Project”). The services to be performed by ENGINEER are set out to be accomplished in four (4) phases. Phase I of the Project included the preparation of a preliminary engineering report and the environmental documentation to environmentally clear the Project including widening and reconstruction of the approach roadways connecting to the new bridge. ENGINEER could only proceed with Phase II, Phase III, and Phase IV of the Project upon written authorization of COUNTY

COUNTY and ENGINEER entered into an amendment entitled “Amendment 1 to Engineering Services Agreement for Replacement of the Mission Boulevard Bridge at Santa Ana River (Bridge No. 56C-0071) between County of Riverside Transportation Department And Kleinfelder Group Inc.” that was executed on September 24, 2019, Agenda Item 3.33 (hereinafter “Amendment No. 1”). Amendment No. 1 authorized Phase II, Phase III, and Phase IV of the Project. ENGINEER was to complete the plans, specifications, and cost estimate (PS&E) in Phase II, provide construction bidding and award support in Phase III, and design support during construction in Phase IV.

During the development of Phase II, additional engineering and environmental tasks not identified in the Agreement and Amendment No. 1 were needed in order to obtain the regulatory permits and finalize the PS&E package for this Project. These additional engineering and environmental tasks will be identified under Amendment No. 2. In addition, the COUNTY will need to coordinate with the United

States Army Corps of Engineers (USACE) on the rehabilitation of their levee project (hereinafter Levee Project) located within the limits of the Project.

A. STANDARDS

No Change. See Amendment No. 1.

B. KEY PERSONNEL

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

Project Manager	James Frost	No Change
Senior Roadway Engineer	Darren Adrian	No Change
Senior Structures Engineer	Sami Megally	No Change
Environmental Team Leader	John Ko	Changed since Amendment No. 1

C. COUNTY RESPONSIBILITIES

No Change. See Amendment No. 1.

ARTICLE AII • PROJECT ADMINISTRATION

A. DELIVERABLES

The following deliverables listed below are in addition to the ones listed in the Agreement and Amendment No. 1 and shall be submitted to the COUNTY by ENGINEER:

- Updated Phase II Site Assessment Work Plan for Field Investigations
- Updated Phase II Site Assessment Report
- Draft and Final Memo Amendment to the Foundation Report and Geotechnical Design Report
- Environmental Assessment Report for 408 Permit in USACE format
- Cultural Resources Assessment Report in USACE format

- Section 408 Permit for the Field Investigation
- Final Structure PS&E Package (Redesign Abutment for Increased Concrete Cover)
- Alternative Trail/Bike-Path Connection Exhibits and Detail
- Alternative Trail/Bike Path Connection Calculations
- Carlson Park Storm Drain Exhibits, Plan/Profile, and Calculations
- Traffic Plans – Signal
- Traffic Plans - Lighting
- Conceptual Temporary Creek Diversion Plan
- Santa Ana River Woollystar Survey Report (Optional)
- Least Bell's Vireo Survey Report (Optional)
- Alternatives Analysis Document for 404 Permit
- Geotechnical Environmental Monitoring Reports (weekly)
- Seasonally Restrictive Fish Survey Report
- Draft and Final Santa Ana Sucker Mitigation, Monitoring and Protection Plan
- Draft and Final Bat Mitigation, Monitoring and Protection Plan
- Nighttime Bat Survey Report
- Installation of Bat Exclusion Material Support
- Installation of Off-site Bat Roosting Habitat Support
- Draft and Final Paleontological Resources Impact Mitigation Program Document
- Burrowing Owl Survey Report
- Draft and Final Burrowing Owl Relocation Plan
- Preconstruction Nesting Bird Survey Report

- Draft and Final Nesting Bird Relocation Plan
- Installation of Bird Exclusion Material Support
- Native American Monitoring Agreement
- Coordination with Construction Manager on Tribal Monitoring

All deliverables will be provided to the COUNTY in electronic format (as identified in the scope for each identified deliverable in this scope of work) unless otherwise noted in this scope of work.

ARTICLE AIII • PLANNING AND PROJECT DEVELOPMENT

A. RESEARCH AND DATA GATHERING

No Change. See Amendment No. 1.

B. PROJECT DEVELOPMENT TEAM

USACE requested a separate Section 408 permit package for the field investigations within the Santa Ana River. The review and approval of the Section 408 permit package for the field investigations has delayed the Project by 18 months. Additional project management expenses include but are not limited to the budget for Project Development Team (PDT) meetings for ENGINEER and their subconsultants. Additional management tasks, such as submittal development, schedule updates, coordination with the team, preparation of meeting minutes, managing action items, and other project management tasks will also be required to be completed due to the 18 months delay.

Assumptions:

- ENGINEER will attend up to 18 monthly PDT meetings in addition to what was established in the Agreement and Amendment No. 1.
- ENGINEER will attend up to 20 coordination meetings in addition to what was established in the Agreement and Amendment No. 1.
- Additional 78-week (approximately 18-month) schedule for Phase II work in addition to what was established in the Agreement and Amendment No. 1.

C. PERMITS

In addition to the Section 408 permit for the construction of the Project included in Amendment No. 1, ENGINEER will complete a separate Section 408 permit as requested by USACE for the field investigations within the Santa Ana River as part of this Amendment No. 2. This Section 408 permit for the field was not included in the original Scope of Services for the Agreement and Amendment No. 1.

The additional scope for preparing the Section 408 permit for field investigations is included in this Amendment No. 2, under Article AIII, Section J-1.

Additional tasks will need to be completed or updated for the environmental regulatory permits as included in Article AVI of this Amendment No. 2.

D. DESIGN SURVEYS

No Change. See Amendment No. 1.

E. FINAL DESIGN DRAINAGE AND BRIDGE HYDRAULICS REPORTS

No Change. See Amendment No. 1.

F. STORM WATER POLLUTION PREVENTION PLAN

No Change. See Amendment No. 1.

G. PHASE II SITE ASSESSMENT

USACE Section 408 permit for the field investigations only allowed the COUNTY to perform the environmental site assessment borings within the Santa Ana River and are included in Amendment No. 1. The proposed environmental site assessment borings within the USACE levees were excluded at that time to expedite issuance of 408 permit for the field investigations. ENGINEER will complete the two environmental borings at the USACE levees and will be included in the updated report once the Section 408 permit for the construction of the Project is provided to the COUNTY.

ENGINEER will perform the tasks listed below for Phase II Site Investigation for the environmental borings at the USACE levees under this Amendment No. 2:

- Reviewing existing data.

- Preparing the Work Plan.
- Preparing a site-specific Health and Safety Plan (HSP).
- Performing a field exploration to collect soil samples.
- Comparing the results of environmental laboratory tests or regulatory limits.
- Reporting findings regarding the impact of soil contamination on the proposed construction.

Deliverables:

- Updated Phase II Site Assessment Work Plan for Field Investigations
- Updated Phase II Site Assessment Report

H. FINAL GEOTECHNICAL INVESTIGATION AND DESIGN

Geotechnical Task 1: Material Report

No Change. See Amendment No. 1.

Geotechnical Task 2: Geotechnical Design Report (including Field Exploration and Laboratory Testing) and Foundation Report for the PS&E Phase

USACE issued a Section 408 Permit for field investigations within the Santa Ana River only. ENGINEER completed four (4) geotechnical borings at the approach roadways and five (5) geotechnical borings within the Santa Ana River.

Because USACE issued the Section 408 Permit for the field investigations during the nesting bird season, ENGINEER was required to perform biological monitoring while performing the geotechnical borings within the Santa Ana River. The biological monitoring was mandated by the California Department of Fish and Wildlife regulatory permit. The additional biological monitoring requirements are part of Amendment No. 2 because they were not anticipated as part of the original Agreement or Amendment No. 1.

A second Section 408 permit will be issued by the USACE for the construction of the Project. To expedite their approval of geotechnical borings at the levees/abutments, the USACE requested that borings be completed as part of the second Section 408 permit for the construction of the Project.

ENGINEER will complete the two (2) geotechnical borings at the abutments/levees once the Section 408 permit for the construction is provided to the COUNTY. The additional field work associated with the borings at the levees was not anticipated in the Agreement or Amendment No. 1. As part of this Amendment No. 2, ENGINEER will perform supplemental laboratory testing, engineering analyses, and preparation of a memo amendment to the Foundation Report (FR) and Geotechnical Design Report (GDR).

The Work Plan for the levee boring was reviewed and approved by the COUNTY prior to submittal to Riverside County Flood Control and Water Conservation District (RCFC&WCD) and USACE. The ENGINEER will obtain an encroachment or right-of-entry permit from RCFC&WCD, City of Riverside, and the City of Jurupa Valley as required to perform the two geotechnical borings at the abutments/levees. The COUNTY will be responsible for any encroachment permit fees required. Securing right-of-entry from private property owners, if necessary, is not included in this scope. The COUNTY will process an Encroachment No-Fee Access Permit through RCFC&WCD for biological monitoring and surveying for geotechnical field work, similar to the PAED phase. To perform field investigations, the environmental clearance for field work and regulatory permits issued for construction from USACE, CDFW, and RWQCB must be obtained.

Upon receipt of required permits, the locations of the proposed field explorations will be marked, and utilities will be notified to locate and mark existing lines and subsurface structures in the vicinity of the proposed field explorations. In addition, the ENGINEER will subcontract with a private service (geophysical survey) to attempt to locate utilities in the area immediately surrounding the proposed boring locations to decrease the risk of damaging a utility from drilling.

Laboratory testing will be performed on selected soil samples obtained during our field exploration to evaluate their engineering properties. The testing will be performed using current ASTM or Caltrans test methods. Presently, ENGINEER anticipates performing the following tests:

- Moisture content and dry unit weight
- Grain-size distribution
- Atterberg limits

- Direct shear strength
- Expansion Index
- Unconfined compression of rock
- Preliminary corrosivity (resistivity, pH, soluble sulfates, and soluble chloride)

The selected type and frequency of laboratory testing will depend on the nature of the soils encountered. Upon completion of the two remaining levee borings and laboratory testing, geotechnical engineering analyses will be performed and communicated to the COUNTY in a memo amendment to the FR and GDR.

Deliverables:

- Memo amendment to the FR and GDR (Draft and Final)

I. FINAL ARCHITECTURAL DETAILS AND VISUAL SIMULATIONS

No Change. See Amendment No. 1.

J. U.S. ARMY CORPS OF ENGINEERS SECTION 408 PERMIT

ENGINEER assumed that the supporting documents for the 408 Permit application for the construction of the Project would be the same technical documents that were prepared to support the CEQA/NEPA document for the bridge replacement for Phase 1. USACE did not accept the NEPA document prepared for the bridge replacement and requested that an Environmental Assessment (EA) and Cultural Resource Assessment (CRA) be prepared for the Section 408 permit for construction that utilized the USACE templates. The Scope of Services in Amendment No. 1 did not include preparation of an EA or a CRA for the Section 408 Permit application for construction. ENGINEER will complete all the tasks necessary to obtain the EA and CRA as part of this Amendment No. 2.

The Section 408 Permit application package for construction including the EA and the CRA reports were submitted to the COUNTY for review prior to submittal to RCFC&WCD and USACE. The Section 408 Permit package including documents for the final bridge design (plans, hydraulic and geotechnical reports) were then provided to RCFC&WCD to submit to the USACE for their review and approval.

Deliverables:

- Environmental Assessment Report for 408 Permit in USACE format
- Cultural Resources Assessment Report in USACE format

J-1 U.S. ARMY CORPS OF ENGINEERS SECTION 408 PERMIT FOR THE FIELD INVESTIGATIONS

To expedite the approval of the field investigation within the Santa Ana River, the USACE requested a separate Section 408 permit for the field investigations not anticipated as part of the original Agreement or Amendment No. 1. As part of this Amendment No. 2, ENGINEER will complete a Section 408 permit package for the field investigation within the Santa Ana River and will submit it to the COUNTY for review prior to submittal to RCFC & WCD and USACE.

Deliverables:

- Section 408 Permit package for the Field Investigations

K. FINAL RIGHT OF WAY REQUIREMENTS MAP

No Change. See Amendment No. 1.

L. UTILITY COORDINATION

ENGINEER will coordinate with the Western Municipal Water District regarding the potential need to install a water line in the proposed bridge. ENGINEER will analyze and provide options for placement of the water line in the bridge.

M. MISCELLANEOUS DESIGN SUPPORT

U.S. Army Corps of Engineers Levee Rehabilitation Project Coordination

ENGINEER will coordinate with the USACE on the Levee Project. Coordination with the Levee Project was not included in the Scope of Services in Amendment No. 1. ENGINEER will coordinate, participate in various meetings with stakeholders, and review Levee Project plans at various design stages as part of Amendment No. 2. This work includes up to ten meetings with USACE to determine how the Mission Boulevard Bridge will be constructed without significant impact to the Levee Project. The Project plans and special provisions will be updated to reflect the Levee Project limits and improvements. Engineering

studies will be completed to address potential changes to the Mission Boulevard Bridge to address comments from USACE related to the Levee Project. Revisions to the Project documents will be included in the 408 Permit for construction deliverable to USACE.

Assumptions:

- ENGINEER will attend up to 10 Levee Project coordination meetings in addition to what was established in the Agreement and Amendment No. 1.

Design Exceptions

No Change. See Amendment No. 1.

Final Transportation Management Plan (TMP)

No Change. See Amendment No. 1.

Constructability Review – Design Support

After completion of the 100% submittal, the COUNTY's selected Construction Management firm will provide constructability review comments. ENGINEER will review comments and provide responses to COUNTY. If directed by the COUNTY, ENGINEER will make revisions to the 100% plans, specifications and estimates to address comments from the constructability review. Changes will be included in the final submittal or as bid phase addendums. Potential revisions include but not limited to the adjustment of the bridge bent cap construction joint and preparation of bridge soffit 4-scale plots.

ARTICLE AIV • STRUCTURES

A. STRUCTURAL DESIGN AND CALCULATIONS

No Change. See Amendment No. 1.

B. INDEPENDENT CHECK REVIEW AND QUALITY CONTROL

No Change. Amendment No. 1.

C. STRUCTURE SPECIFICATIONS AND ESTIMATES

No Change. See Amendment No. 1.

D. STRUCTURE PLANS, SPECIFICATIONS, AND ESTIMATE

The structure PS&E will be provided in four submittal packages to the COUNTY. For Amendment No. 2, the ENGINEER will provide an Over the Shoulder (OTS) 65% submittal and will not provide the 90% submittal from Amendment No. 1.

Initial Structure PS&E (65% Unchecked Plans)

In order to expedite the delivery of this package to mitigate for the 18-month delay associated with the 408 permit for field investigations approval process, an OTS 65% structure plans will be compiled and submitted to the COUNTY for review for Amendment No. 2. The OTS 65% design will be based on the preliminary geotechnical information available. In addition, the 65% design submittal will include revisions from the OTS 65% submittal to include data received from the field investigations performed in 2021. This results in the need for a new seismic analysis, additional structural analysis, and a redesign by ENGINEER's design team based on updated geotechnical recommendations. The specific redesign effort includes a detailed analysis per Caltrans MTD 20-15 to consider effects of piles and restraining effects of superstructure to reduce the lateral spreading displacement. The analysis mitigates the lateral spreading conditions at Abutment 1 and Bent 2. Extensive analysis to explore different options to reduce cost resulted in the decision to make the pier cap of the two bridges continuous and it is thus possible to eliminate the need to install ground improvements, larger piles at abutments, and permanent steel casings, saving an estimated \$4.5 million in construction costs. The revisions will be incorporated into the 65% submittal.

Intermediate Structure PS&E (90% Checked Plans)

The (90%) structure PS&E submittal is eliminated.

Draft Final Structure PS&E (95% Checked Plans)

No Change. See Amendment No. 1.

Final Structure PS&E (100% Checked Plans)

Redesign Abutment for Increased Concrete Cover

ENGINEER will provide a bridge structure redesign to include additional concrete cover to bridge abutment, per USACE requirement, which was not anticipated in Agreement or Amendment No. 1. This revision requires edits to previous design in project plans and specifications.

Deliverables:

- Final Structure PS&E Package – Redesign Abutment for Increased Concrete Cover

ARTICLE AV • ROADWAY

A. BASIC ROADWAY PLANS

Amendment No. 1 included a Santa Ana River Bike Path Modification Plan (under bridge). ENGINEER provided and evaluated three alternative trail/bike path connections to provide access from the Mission Blvd Multi-Purpose Trail to the Santa Ana River Trail. Exhibits are added to the scope in this Amendment No. 2.

Deliverables:

- Alternative Trail/Bike-Path Connection Exhibits and Detail

B. CALCULATIONS

Amendment No. 1 included a Santa Ana River Bike Path Modification Plan (under bridge). ENGINEER prepared additional calculations for an alternative trail/bike path connection to provide access from the Mission Blvd Multi-Purpose Trail to the Santa Ana River Trail. Amendment No. 1 did not include calculations of this bike trail/path connection. Calculations included grading, elevations and slopes along the bike trail/path to determine feasibility of meeting bikeway standards. Calculations for the connection were prepared and have been added to the scope in this Amendment No. 2.

Deliverables:

- Alternative Trail/Bike Path Connection Calculations

C. DRAINAGE PLANS

Amendment No. 1 assumed that the existing storm drain within Carlson Park receiving the drainage from the existing bridge is in good condition, and that a new storm drain within Carlson Park is not

anticipated. During final design it was determined that the storm drain through Carlson Park was not functional. ENGINEER will prepare additional exhibits for three alternative alignments for a new storm drain at the Carlson Park. This scope is included in Amendment No. 2.

Deliverables:

- Carlson Park Storm Drain Exhibits, Plan/Profile, and Calculations

D. TRAFFIC PLANS

Amendment No. 1 did not include modifications to the existing traffic signal at intersection of Mission Boulevard and Crestmore Avenue. ENGINEER shall prepare traffic signal plan for this location at 1-inch = 20 feet showing updates to traffic signal, accounting for the addition of a multi-use path along Mission Boulevard. Design will entail installing necessary equipment for traffic signal operation.

ENGINEER shall update lighting layout along Mission Boulevard based on street light photometrics provided by the COUNTY. Photometric analysis requested by City of Riverside to confirm and update layout of lighting from PA&ED phase.

Deliverables:

- Traffic Plans – Signal
- Traffic Plans - Lighting

E. MISCELLANEOUS PLANS

Conceptual Temporary Creek Diversion Plan

A Conceptual Temporary Creek Diversion Plan is part of this Amendment No. 2 because it was not anticipated as part of the original Agreement or Amendment No. 1. This conceptual diversion plan was requested by the Regional Water Quality Control Board (RWQCB) to support the Project's Clean Water Act Section 401 permit application. ENGINEER will prepare a Conceptual Temporary Creek Diversion Plan to be provided to the RWQCB for review and approval. This conceptual diversion plan is also required to be developed in coordination with the Levee Project and in compliance with the Project's Biological Opinion (BO) issued by the U.S. Fish and Wildlife Service.

The diversion plan will be prepared as a technical memorandum. The technical memorandum will include, at a minimum, detailed engineering sheet(s) that illustrates the temporary diversion structures and details the materials, construction methods, pumping procedures, water quality sampling, fish passage and entrainment, and rehabilitation actions following use of the temporary diversion. The conceptual diversion plan will include efforts to avoid and minimize impacts to special-status biological resources, specifically the Santa Ana sucker, and incorporate information from the standalone Santa Ana Sucker Mitigation, Monitoring and Protection Plan that will be prepared first and is described in Article AVI Section E Environmental Task 5.

This task includes preparation of the conceptual diversion plan for review by the COUNTY, CDFW, USACE, & USFW (one round of comments) and then one subsequent round of review by the RWQCB. Plan will be conceptual in nature and allow for modifications by the bridge contractor as part of the required Temporary Creek Diversion System submittal required by the Special Provisions. Any major modifications will require additional rounds of reviews that are not included in this task. Subsequent review and approval may be required by the RWQCB prior to starting work.

Deliverables:

- Conceptual Temporary Creek Diversion Plan

F. INTERMEDIATE REVIEWS

No Change. See Amendment No. 1.

G. SPECIFICATIONS AND ESTIMATE

No Change. See Amendment No. 1.

H. QUALITY CONTROL

No Change. See Amendment No. 1.

I. DRAFT PLANS, SPECIFICATIONS, AND ESTIMATE (95% COMPLETE)

No Change. See Amendment No. 1.

J. FINAL PLANS, SPECIFICATIONS, AND ESTIMATE (100% COMPLETE)

No Change. See Amendment No. 1.

ARTICLE AVI • ENVIRONMENTAL PERMITS AND MITIGATION PLAN

A. ENVIRONMENTAL TASK 1: FEDERAL CLEAN WATER ACT (CWA) SECTION 404 NATIONWIDE PERMIT AUTHORIZATION

USACE is requiring the COUNTY to address the Levee Project in its 404 and 408 permit processes. ENGINEER will assist with resource agency and project team coordination, review relevant documentation, and provide additional information to the resource agencies. If the Levee Project triggers amending the Project's Biological Opinion (BO)/Section 7 Consultation, ENGINEER will request updates to the Project's BO. This task includes preparation of USACE 408 Environmental Assessment (EA) already submitted to USACE and the updates to the USACE 408 EA to include the Levee Project.

Deliverables:

- Biological Opinion Updates
- Environmental Assessment and Updates

Santa Ana River Woollystar Survey

USACE may require the COUNTY to update the Santa Ana River woollystar survey as a result of Section 404 permit application comments, which was not assumed to be needed in Amendment No. 1. Engineer will conduct the Santa Ana River Woollystar Survey with a qualified biologist according to currently accepted protocol, as necessary, for USACE compliance. The survey would be conducted between April and September prior to construction. This survey is intended to prepare for Project construction. ENGINEER will coordinate with Construction Manager team to ensure environmental compliance. After completion of the focused survey, ENGINEER will prepare and submit a report documenting the survey results to the COUNTY and appropriate resource agencies.

Deliverables:

- Santa Ana River Woollystar Survey Report

Least Bell's Vireo Survey

USACE may require a focused survey for least Bell's Vireo to be conducted by a qualified biologist according to currently accepted protocol, as a result of Section 404 permit application comments, which was not assumed to be needed in Amendment No. 1. Eight surveys would be conducted in accordance with USFWS survey protocol between April 10 and July 31. This survey is intended to prepare for Project construction. ENGINEER will coordinate with Construction Manager team to ensure environmental compliance. Up to 8 field visits will be conducted. After completion of the focused survey, ENGINEER will prepare and submit a report documenting the survey results to the COUNTY and appropriate resource agencies.

Deliverables:

- Least Bell's Vireo Survey Report

B. ENVIRONMENTAL TASK 2: CWA SECTION 401, WATER QUALITY CERTIFICATION

The State Water Resources Control Board (SWRCB) adopted the State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State (Procedures) on April 2, 2019. The Procedures, which became effective on May 28, 2020, resulted in changes to the 401 Water Quality Certification process with the Regional Water Quality Control Board (RWQCB) and contains permit issuance standards that increase the requirements for new Water Quality Certifications. The Procedures require that the 401 Water Quality Certification application package include an alternative analysis demonstrating that the Project is the Least Environmentally Damaging Practicable Alternative (LEDPA). While an assessment of alternatives has been conducted throughout the design process and in consultation with the California Department of Transportation (Caltrans) and the Federal Highway Administration (FHWA), additional analysis will be required to meet the standards specified in the Procedures and establish that the Project is the LEDPA. Assistance from the COUNTY in reconstructing the evaluation of alternatives that has been conducted to date will be needed. An Alternatives Analysis will be prepared for submittal to the RWQCB. ENGINEER will coordinate with Construction Manager team to ensure environmental compliance.

Deliverables:

- Alternatives Analysis Document

C. ENVIRONMENTAL TASK 3: CALIFORNIA FISH AND GAME CODE SECTION 1602, LAKE OR STREAMBED ALTERATION AGREEMENT

As indicated in Article AIII, Section H of this Amendment No. 2, the CDFW required biological monitoring for field investigations that were performed during the nesting bird season for compliance with the Section 1602 permit, which was unanticipated in Amendment No. 1 due to unknown permitting requirements. This task includes seven weeks of biological geotechnical monitoring and associated reporting requirements (weekly nesting bird reports). ENGINEER will coordinate with Construction Manager team to ensure environmental compliance.

Deliverables:

- Geotechnical Environmental Monitoring Reports (weekly)

D. ENVIRONMENTAL TASK 4: ON-SITE MITIGATION PLAN

The on-site HMMP will be updated as necessary to include the Levee Project information including project impacts, mitigation review, and review of Levee Project's BO, EA and supporting environmental documents, which was not anticipated as part of Amendment No. 1. Accounting for the overlap between projects adds complexity and requires additional coordination with the Project team, USACE, RCFC&WCD, USFW, CDFW, and RWQCB. ENGINEER will coordinate with Construction Manager team to ensure environmental compliance.

Deliverables:

- On-site HMMP

E. ENVIRONMENTAL TASK 5: COORDINATION WITH CITY OF RIVERSIDE AND SUCKER HABITAT CONSERVATION PLAN FOR OFF-SITE MITIGATION

Santa Ana Sucker Mitigation, Monitoring and Protection Plan

Amendment No. 1 only included project team and agency coordination to frame development of a mitigation plan for the Santa Ana sucker. As part of this Amendment No. 2, a Santa Ana Sucker Mitigation, Monitoring and Protection Plan (SASMMP), which is a requirement of the Project's CEQA/NEPA document and regulatory permits will be prepared by a qualified fisheries biologist.

The SASMMP will provide the Project team with clear strategies and methods for compliance with Santa Ana sucker-related requirements in advance of bridge construction. It is anticipated that preparation of the SASMMP will require a re-analysis of Project impacts and mitigation to acknowledge the Levee Project, which is currently being constructed. At a minimum, the SASMMP will include details on the temporary diversion structures, re-analysis of impacts to sucker habitat (subtracting Levee Project impact footprint), bridge construction methods and duration of activities, biological monitoring, Santa Ana sucker rescue and relocation efforts, data collection or processing required by the Project's BO, post-diversion habitat restoration actions (both on- and offsite; such as grade and in-stream substrate considerations), managing invasive fish and amphibian species, adaptive management approaches, and long-term biological monitoring to ensure successful habitat restoration and protection of the Santa Ana sucker. The SASMMP will also include figures that illustrate locations of project impacts, diversion structures, and restoration areas (both on- and offsite). ENGINEER will coordinate with Construction Manager team to ensure environmental compliance.

The Draft SASMMP will be provided to the COUNTY, RCFC&WCD and USACE electronically for review (including one round of review and addressing comments) prior to submittal to the wildlife resource agencies (CDFW and U.S Fish and Wildlife Service). This task includes up to two rounds of review and addressing comments from the CDFW and USFWS. The SASMMP will be reviewed and approved by the CDFW and U.S Fish and Wildlife Service prior to its finalization and implementation.

Assumptions:

- ENGINEER will provide draft SASMMP to COUNTY for one round of review and addressing comments prior to submittal to the wildlife resource agencies.
- ENGINEER will provide draft SASMMP to CDFW and USFWS for up to two rounds of review and addressing comments prior to its finalization and implementation.
- The SASMMP will require one focused and/or underwater, seasonally restrictive fish survey of the affected area prior to water diversion, noting habitat and any fish present.
- The Project will rely on survey data collected as part of the Levee Project and not require overlapping preconstruction surveys between Project and Levee Project, where possible. This will need to be confirmed with the resource agencies.

Deliverables:

- Seasonally Restrictive Fish Survey Report
- Draft and Final SASMMP Document

F. ENVIRONMENTAL TASK 6: OFF-SITE BAT HABITAT COORDINATION AND DESIGN

Bat Mitigation, Monitoring and Protection Plan

In addition to the off-site bat coordination and design included in Amendment No. 1, a Bat Mitigation, Monitoring and Protection Plan (BMMPP) is added to this Amendment No. 2. A bat biologist approved by the CDFW will prepare the BMMPP. The BMMPP will serve to design and implement bat-related mitigation strategies that will provide the Project team with clear strategies and methods for compliance with bat-related requirements well in advance of bridge construction. The BMMPP will be consistent with recommendations in Caltrans Bat Mitigation: A Guide to Developing Feasible and Effective Solutions (H.T. Harvey & Associates 2019). ENGINEER will submit the Draft BMMPP to the COUNTY electronically for review prior to submittal to CDFW. The BMMPP will be reviewed and approved by the CDFW prior to its finalization and implementation. ENGINEER will coordinate with Construction Manager team to ensure environmental compliance.

Deliverables:

- Draft and Final BMMPP Document

Nighttime Bat Survey

The nighttime bat survey will assist in determining necessary offsite habitat to be created prior to construction. During these nighttime surveys, the bridge will be monitored for emerging bats to confirm bat occupancy and to determine the number and species of any bats present. Night vision goggles (military grade PVS-7, Generation 3) augmented with portable infrared lights will be used to observe emerging bats after sunset. Bat vocalizations will be recorded using full-spectrum ultrasound detectors, with calls recorded on secure digital (SD) cards for later analysis and species identification. These acoustic data will aid the bat specialist in identifying bat species emerging from roost sites as well as bat species that use the site for commuting and foraging. After the focused bat survey is completed, ENGINEER's bat specialist will analyze any acoustic data and prepare a brief report summarizing the

results of the survey. ENGINEER will coordinate with Construction Manager team to ensure environmental compliance.

Deliverables:

- Nighttime Bat Survey Report

Installation of Bat Exclusion Material and Installation of Off-site Bat Roosting Habitat Support

ENGINEER will assist Construction Contractor with installation of bat exclusion material on bridge structure and installation of off-site bat roosting habitat, which was not included in Amendment No. 1 and is added as part of Amendment No. 2. ENGINEER will coordinate with Construction Manager team to ensure environmental compliance.

Deliverables:

- Installation of Bat Exclusion Material Support
- Installation of Off-site Bat Roosting Habitat Support

G. ENVIRONMENTAL TASK 7: OFF-SITE MITIGATION PLAN ENVIRONMENTAL LEAD COORDINATION WITH SUBCONSULTANT

The off-site HMMP will include the Levee Project and Market St Bridge project information, including both projects' impacts, off-site mitigation review, and review of Levee Project's BO, EA and supporting environmental documents, which was not anticipated as part of Amendment No. 1 and is added as part of Amendment No. 2. Off-site mitigation will be combined between the Project and Market St Bridge project in a shared location. Accounting for the overlap between Levee Project and shared off-site mitigation location with Market St Bridge project adds complexities and requires additional coordination with the project team, USACE, Market St Bridge project team, RCFC&WCD, USFW, CDFW, and RWQCB. ENGINEER will coordinate with Construction Manager team to ensure environmental compliance.

Deliverables:

- Off-Site HMMP

H. ENVIRONMENTAL TASK 8: PALEONTOLOGICAL RESOURCES IMPACT MITIGATION PROGRAM (PRIMP)

In accordance with Mitigation Measure PAL-1 of the Project's Mitigation Monitoring and Reporting Plan (MMRP), ENGINEER will prepare a Paleontological Resources Impact Mitigation Program (PRIMP) that will discuss the appropriate mitigation requirements regarding paleontological resources for this Project, which was not included in Amendment No. 1 and is added as part of Amendment No. 2. This PRIMP will follow the guidelines set forth by the Society of Vertebrate Paleontology (SVP), as well as industry best practices. It will describe the proposed Project and grading plans, the specific protocols and procedures of monitoring and fossil collection activities, the necessary actions in the event that paleontological resources are discovered, the treatment methods for those resources, and the necessary report at the conclusion of the monitoring program. For the purposes of this proposal, ENGINEER assumes one round of responses to minor comments on this PRIMP from the COUNTY. ENGINEER will coordinate with Construction Manager team to ensure environmental compliance.

Deliverables:

- Draft and Final PRIMP Document

I. ENVIRONMENTAL TASK 9: BURROWING OWL SURVEY AND RELOCATION PLAN

In accordance with Mitigation Measure BIO-18 of the Project's MMRP, ENGINEER will conduct a Burrowing Owl Pre-construction Survey for this Project thirty (30) days prior to construction, which was not included in Amendment No. 1 and is added as part of Amendment No. 2.

ENGINEER will prepare a Draft and Final Burrowing Owl Relocation Plan in accordance with Mitigation Measure BIO-19 of the Project's MMRP, which was not included in Amendment No. 1.

Deliverables:

- Burrowing Owl Survey Report
- Draft and Final Burrowing Owl Relocation Plan

J. ENVIRONMENTAL TASK 10: PRECONSTRUCTION NESTING BIRD SURVEY, RELOCATION PLAN AND BIRD EXCLUSION MATERIAL INSTALLATION SUPPORT

In accordance with Mitigation Measure BIO-22 of the Project's MMRP, ENGINEER will conduct a Preconstruction Nesting Bird Survey for this Project seven (7) days prior to construction, which was not included in Amendment No. 1 and is added as part of Amendment No. 2.

ENGINEER will prepare a Draft and Final Preconstruction Nesting Bird Relocation Plan in accordance with Mitigation Measure BIO-22 of the Project's MMRP, which was not included in Amendment No. 1 and is added as part of Amendment No. 2.

ENGINEER will provide support to Construction Contractor for the installation of bird exclusion material on the bridge structure. ENGINEER will coordinate with Construction Manager team to ensure environmental compliance.

Deliverables:

- Preconstruction Nesting Bird Survey Report
- Draft and Final Nesting Bird Relocation Plan
- Installation of Bird Exclusion Material Support

K. ENVIRONMENTAL TASK 11: NATIVE AMERICAN MONITORING AGREEMENT

In accordance with Mitigation Measure TCR-1 of the Project's MMRP, ENGINEER will prepare a Native American Monitoring Agreement with the Gabrieleno Band of Mission Indians-Kizh Nation, which was not included in Amendment No. 1 and is added as part of Amendment No. 2.

ENGINEER will coordinate with the Construction Manager on tribal monitoring coordination efforts, which was not included in Amendment No. 1 and is added as part of Amendment No. 2.

Deliverables:

- Native American Monitoring Agreement
- Coordination with Construction Manager on Tribal Monitoring

ARTICLE AVII • CONSTRUCTION BIDDING PHASE

No Change. See Amendment No. 1.

ARTICLE AVIII • CONSTRUCTION SUPPORT PHASE

No Change. See Amendment No. 1.

ARTICLE AVIV • COMPUTER SERVICES

A. CALCULATIONS

No Change. See Amendment No. 1.

B. COMPUTER AIDED DRAFTING AND DESIGN

No Change. See Amendment No. 1.

ARTICLE AX • QUALITY CONTROL PLAN

No Change. See Amendment No. 1.

ARTICLE AXI • ADVANCE CONCEPTUAL ENGINEERING

No Change. See Amendment No. 1.

ARTICLE AXII • SHEET LIST

No Change. See Amendment No. 1.

**AMENDMENT 2 • APPENDIX 2C • REPLACEMENT OF
MISSION BOULEVARD BRIDGE AT SANTA ANA
RIVER (BR. NO. 56C-0071) FEE PROPOSAL**

**AMENDMENT 2 • APPENDIX 2C • REPLACEMENT OF MISSION
BOULEVARD BRIDGE AT SANTA ANA RIVER (BR. NO. 56C-0071) FEE PROPOSAL**

January 27, 2023

COMPANIES	PHASE I	PHASE II	PHASE III	PHASE IV	TOTAL
Original Budget + Amendment 1	\$1,694,939	\$2,707,293	\$29,662	\$263,116	\$4,695,009
Amendment 2:					
Kleinfelder Prime, Bridge, Geotechnical, Visual		\$935,556			\$935,556
LSA Sub consultant - Environmental		\$468,764			\$468,764
Kimley-Horn Sub consultant - Civil		\$56,854			\$56,854
Diaz-Yourman Sub consultant - Phase II Site Assessment		\$69,401			\$69,401
Tatsumi and Partners Sub consultant - Landscape Architect					
Chang Consultants Sub consultant - Bridge Hydraulics					
Value Management Strategies Sub consultant - Value Analysis					
TOTAL	\$1,694,939	\$4,237,869	\$29,662	\$263,116	\$6,225,585

- PHASE I PAED (Previously Approved)
- PHASE II Plans, Specs & Estimate
- PHASE III Bid Support (Previously Approved)
- PHASE IV Construction Support (Previously Approved)

January 27, 2023

COMPANIES	PHASE I	PHASE II	PHASE III	PHASE IV	TOTAL
Kleinfelder Prime, Bridge, Geotechnical, Visual		\$935,556			\$935,556
LSA Sub consultant - Environmental		\$468,764			\$468,764
Kimley-Horn Sub consultant - Civil		\$56,854			\$56,854
Diaz-Yourman Sub consultant - Phase II Site Assessment		\$69,401			\$69,401
Tatsumi and Partners Sub consultant - Landscape Architect					
Chang Consultants Sub consultant - Bridge Hydraulics					
Value Management Strategies Sub consultant - Value Analysis					
TOTAL		\$1,530,576			\$1,530,576

- PHASE I **PAED**
- PHASE II **Plans, Specs & Estimate**
- PHASE III **Bid Support**
- PHASE IV **Construction Support**

FEE PROPOSAL WORKSHEET

COMPANY: Kleinfelder	SCOPE OF WORK: Amendment 2 (Phase 2) Summary	PHASE: Phase II - Amend
PROJECT: Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)		DATE: January 27, 2023

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT	
James Frost	Project Manager	147	@	\$109.13	\$16,042.11	
Sami Megally	Senior Structural Engineer	443	@	\$89.85	\$39,803.55	
Keith Gazaway	Senior Bridge Engineer	142	@	\$74.04	\$10,513.68	
Colby Cushing	Senior Bridge Engineer	10	@	\$70.32	\$703.20	
Minxing Zhao	Senior Bridge Engineer	450	@	\$50.00	\$22,500.00	
Josh Olmedo	Assistant Engineer	516	@	\$43.27	\$22,327.32	
Ty Brittain	Senior Technician	133	@	\$64.90	\$8,631.70	
Therese Havlucian	Deputy Project Manager (former)	563	@	\$45.50	\$25,616.50	
Julie Unsworth	Project Controls	120	@	\$39.43	\$4,731.60	
Michael Foster	Sr. Project Manager/Geotechnical	20	@	\$107.89	\$2,157.80	
Zia Zafir	Sr. Seismic Engineer	101	@	\$85.59	\$8,644.59	
Kevin Crennan	Sr. Geotechnical Engineer	342	@	\$72.84	\$24,911.28	
Michael Cook	Sr. Geologist	200	@	\$60.79	\$12,158.00	
Janna Bonfiglio	Project Geotechnical Engineer	120	@	\$52.89	\$6,346.80	
Hung Mai	Staff Geotechnical Engineer	440	@	\$30.29	\$13,327.60	
Thomas Strand	Technical Reviews	50	@	\$57.70	\$2,885.00	
Janet Patay	Sr. CADD/GIS	157	@	\$44.23	\$6,944.11	
Miki Muramoto	Project Administrator / Word Processing	20	@	\$35.00	\$700.00	
Rachael Nixon	Senior Archaeologist	8	@	\$72.12	\$576.96	
Johnathan West	3D Design and Visualization Specialist	11	@	\$60.42	\$664.62	
Eric Buckwalter	Deputy Project Manager (current)	436	@	\$57.21	\$24,943.56	
Ryan Henry	Principal Environmental Staff	64	@	\$89.64	\$5,736.96	
Sumudu Welaratna	Associate Environmental Staff	120	@	\$70.55	\$8,466.00	
Rob Aramayo	Senior Environmental Staff	114	@	\$56.49	\$6,439.29	
Joseph Hiatt	GIS	44	@	\$30.29	\$1,332.76	
Patty Wisell	Administrative	12	@	\$30.29	\$363.48	
		TOTAL HOURS:		4,783	TOTAL AMOUNT:	\$277,468.47

MULTIPLIERS

ESCALATION @	(of Direct Labor)	
OVERHEAD @ (60.34% Fringe + 115.12% OH) = 175.46%	(of Direct Labor + Escalation)	\$486,846.18
PAYROLL ADDITIVES @	(of Direct Labor + Escalation)	
PROFIT (FIXED FEE)	10.0%	\$76,431.46
TOTAL MULTIPLIERS:		\$563,277.64

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction (Full Plan Sheets)				
Reproduction (Half Size Sheets)				
Reproduction (Exhibits, Mounted Graphics)				
Mylars				
Deliveries				
Mileage				
Miscellaneous Permit Needs				
Other Design Tasks				
Geotech Breakdown Attached				
Geotech - Mileage	500	miles	\$0.56	\$280.00
Geotech - Per Diem				
Geotech - SoCal Drilling	1	8 days drilling	\$75,000.00	\$75,000.00
Geotech - SoClaris (Test/Haz Mat Disposal)	1	lump	\$5,000.00	\$5,000.00
Geotech - Co's Traffic Control	2	DAY @	\$2,765.00	\$5,530.00
Geotech - Cut-N-Core				
Geotech - Tow Truck				
Geotech - CPL Underground Detection Services	1	lump	\$1,500.00	\$1,500.00
Geotech - Geophysical Sub				
Geotech - Permits	1	lump	\$500.00	\$500.00
Geotech - Lab Testing	1	lump	\$7,000.00	\$7,000.00
Geotech - Deck Coring/Demo				
Geotech - Deck Repair				
TOTAL ODC'S:				\$94,810.00

SUB CONSULTANT SERVICES

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
LSA Associates	\$148,645.04	\$319,139.41	\$979.92	\$468,764.37
Kimley-Horn	\$17,651.06	\$39,203.36		\$56,854.42
Diaz Yourman	\$14,346.03	\$35,470.27	\$19,585.00	\$69,401.30
Tatsumi and partners				
Chang Consultants				

TOTAL SUBCONSULTANT SERVICES: \$595,020.09

TOTAL \$1,530,576.21

MANHOUR WORKSHEET

COMPANY: Kleinfelder
 PROJECT: Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)

SCOPE OF WORK: Amendment 2 (Phase 2) Summary

PHASE: Phase II - Amend
 DATE: January 27, 2023

TASK	Project Manager	Senior Structural Engineer	Senior Bridge Engineer	Senior Bridge Engineer	Senior Bridge Engineer	Assistant Engineer	Senior Technician	Design Project Manager	Project Controls	Mr. Project Management/Coordinator	Mr. Assistant Engineer	Mr. Geotechnical Engineer	Mr. Geotechnical Engineer	Project Geotechnical Engineer	Staff Geotechnical Engineer	Technical Review	Mr. LUDWIG	Project Administrator / Staff	Senior Environmental Staff	2D Design and Production	Staff Architect / DDC	Administrative	Principal Environmental Staff	Assistant Environmental Staff	Senior Environmental Staff	DR	Administrative	Design Project Manager	Hours	Cost				
Total Manhours	147	443	142	10	450	516	133	563	120	20	101	342	200	120	440	50	157	20	8	11			64	120	114	44	12	436	4,783	840,748				
ARTICLE AIII - PLANNING AND PROJECT DEVELOPMENT																																		
B PROJECT DEVELOPMENT TEAM																																		
1. Management for Extended Project Schedule	26	26						390	100																				230	772	\$ 121,262			
H FINAL GEOTECHNICAL INVESTIGATION AND DESIGN																																		
1. Added Geotechnical Investigation and Design			2		200					10		200	100		280		10	10												1	199	\$ 24,355		
2. Field Coordination, Drilling and Drum Disposal										1		16	40		140																1	199	\$ 24,355	
3. Lab Testing					10							4																			1	14	\$ 2,398	
4. Analysis					50					2	16	15	16	50																	149	\$ 26,649		
5. Draft logs and update of LOTB sheets					10					1	10	10			20		12														63	\$ 9,335		
6. Memo Amendment to the FR and GDR					30					4	20	30	20				8	8												1	121	\$ 21,092		
7. Review specifications					10					1	5	10																		1	27	\$ 4,721		
8. Address review comments and stamp plans					10					1	10	4						1												1	27	\$ 5,065		
J U.S. ARMY CORPS OF ENGINEERS SECTION 408 PERMIT																																		
1. Environmental Assessment Report for 408 Permit								9									4													5	18	\$ 2,807		
2. Cultural Resources Assessment Report in USACE Format																	46			8											54	\$ 9,791		
J-1 U.S. ARMY CORPS OF ENGINEERS SECTION 408 PERMIT FOR THE FIELD INVESTIGATION																																		
1. Section 408 Permit (for the Field Investigation)								114				22																			73	225	\$ 37,141	
L UTILITY COORDINATION																																		
1. Coordination reg Water Line			4		10		5	24																								43	\$ 7,184	
M MISCELLANEOUS DESIGN SUPPORT																																		
1A. USACE Levee Rehabilitation Project Coordination - Meetings	20	10						6				2																			2	40	\$ 10,951	
1B. USACE Levee Rehabilitation Project Coordination - Research & Plan and Specification Revisions	60	70			80		20					18						20												12	291	\$ 62,891		
2. Constructability Review - Design Support	20	100	100		130	150	40		20		40	20		40			80													100	840	\$ 155,145		
ARTICLE AIV - STRUCTURES																																		
D STRUCTURE PLANS, SPECIFICATIONS, AND ESTIMATE																																		
1. Initial Structure PS&E (65% Unchecked Plans) - Redesign to Incorporate Field Investigation		225	40			225	75					45																				610	\$ 126,149	
2. Final Structure PS&E (100% Checked Plans) - Redesign Abutment for Increased Concrete Cover		4	8			16	8																								2	38	\$ 7,518	
ARTICLE AV - ROADWAY																																		
E MISCELLANEOUS PLANS																																		
1. Conceptual Temporary Creek Diversion Plan		8			40	10											20														4	82	\$ 13,230	
ARTICLE AVI - ENVIRONMENTAL PERMITS AND MITIGATION PLAN																																		
E ENVIRONMENTAL TASK 5																																		
1. Seasonally Restrictive Fish Survey Report																																4	24	\$ 4,510
2. Santa Ana Sucker Mitigation and Monitoring Plan (SAS MMP)																							4	120	54	44	12	4			288	\$ 55,396		
K ENVIRONMENTAL TASK 11																																		
1. Native American Monitoring Agreement																																2	17	\$ 3,111
2. Coordination with Construction Manager on Tribal Monitoring																																4	29	\$ 5,366

FEE PROPOSAL WORKSHEET

COMPANY:

Kimley-Horn

SCOPE OF WORK:

Plans, Specs & Estimates

PHASE:

Phase II - Amend

PROJECT:

Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)

DATE:

January 27, 2023

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Darren Adrian	Sr. Roadway Engineer	17	@	\$99.70	\$1,694.90
	Traffic Engineer			\$69.03	
Othman Elmezain	QC / Senior Engineer	4	@	\$83.15	\$332.60
	Landscape Architect			\$66.63	
Kameron Qureshi	Project Engineer Civil	90	@	\$45.86	\$4,127.40
Tim Chan	Project Engineer Traffic	24	@	\$47.19	\$1,132.56
	Surveyor			\$40.43	
Breanna Ruiz Carillo	Engineer	240	@	\$41.84	\$10,041.60
	Assistant Engineer / Technician			\$34.66	
	CADD Designer			\$44.35	
Armando Hernandez	Administrative	8	@	\$40.25	\$322.00
		TOTAL HOURS:	383	TOTAL AMOUNT:	\$17,651.06

MULTIPLIERS

ESCALATION @		(of Direct Labor)	
OVERHEAD @ (38.63% Fringe + 154.19% OH) = 192.82%	192.82%	(of Direct Labor + Escalation)	\$34,034.77
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE)	10.0%		\$5,168.58
			TOTAL MULTIPLIERS: \$39,203.36

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction (Full Plan Sheets)				
Reproduction (Half Size Sheets)				
Mileage				
Deliveries				
Office Expenses (per County agreement)				
Potholing (allowance)				
				TOTAL ODC'S:

SUB CONSULTANT SERVICES

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
				TOTAL SUBCONSULTANT SERVICES:

TOTAL SUBCONSULTANT SERVICES:

TOTAL \$56,854.42

MANHOOR WORKSHEET

COMPANY

Kimley-Horn

SCOPE OF WORK:

Plans, Specs & Estimates

PHASE

Phase II - Amend

PROJECT

Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)

DATE:

January 27, 2023

TASK	Professional Categories											HOURS	COST
	SR. ROADWAY ENGINEER	TRAFFIC ENGINEER	QC / SENIOR ENGINEER	LANDSCAPE ARCHITECT	PROJECT ENGINEER CIVIL	PROJECT ENGINEER TRAFFIC	SURVEYOR	ENGINEER	ASSISTANT ENGINEER / TECHNICIAN	CADD DESIGNER	ADMINISTRATIVE		

Total Manhours	17	4	90	24	240	8						383	56,854
-----------------------	-----------	----------	-----------	-----------	------------	----------	--	--	--	--	--	------------	---------------

Task Description	SR. ROADWAY ENGINEER	TRAFFIC ENGINEER	QC / SENIOR ENGINEER	LANDSCAPE ARCHITECT	PROJECT ENGINEER CIVIL	PROJECT ENGINEER TRAFFIC	SURVEYOR	ENGINEER	ASSISTANT ENGINEER / TECHNICIAN	CADD DESIGNER	ADMINISTRATIVE	HOURS	COST
ARTICLE AIII - PLANNING AND PROJECT DEVELOPMENT													
B. PROJECT DEVELOPMENT TEAM													
1. Project Development Team	4			16					8			28	\$ 4,685
ARTICLE AV - ROADWAY													
A. BASIC ROADWAY PLANS													
1. Alternative Trail/Bike-Path Connection Exhibits and Detail	2	1		20				60				83	\$ 11,950
B. CALCULATIONS													
1. Alternative Trail/Bike Path Connection Calculations	2	1		15				10				28	\$ 4,474
C. DRAINAGE PLANS													
1. Carlson Park Storm Drain Exhibits, Plan/Profile, and Calculations	4	2		35				75				116	\$ 17,098
D. TRAFFIC PLANS													
1. Traffic Plans - Signal	4			4	20			70				98	\$ 14,349
2. Traffic Plans - Lighting	1				4			25				30	\$ 4,298

FEE PROPOSAL WORKSHEET

COMPANY:

Diaz-Yourman

SCOPE OF WORK:

Plans, Specs & Estimates

PHASE:

Phase II - Amend

PROJECT:

Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)

DATE:

January 27, 2023

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Clint Isa	Principal	55	@	\$86.82	\$4,775.10
S. Niranjana	Principal	6	@	\$86.82	\$520.92
Chaitanya Kukutla	Project II	125	@	\$45.83	\$5,728.75
Multiple	Staff I	48	@	\$28.00	\$1,344.00
Multiple	Field Staff (PW)	18	@	\$50.43	\$907.74
Ashley Scholder	Draftsman	20	@	\$23.90	\$478.00
Deanna Rose	Technical Editor	16	@	\$36.97	\$591.52

TOTAL HOURS: **288** TOTAL AMOUNT: **\$14,346.03**

MULTIPLIERS

ESCALATION @	(of Direct Labor)		
OVERHEAD @ (74.35% Fringe + 141.33% OH) = 215.68%	215.7%	(of Direct Labor + Escalation)	\$30,941.52
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE)	10.0%		\$4,528.75

TOTAL MULTIPLIERS: **\$35,470.27**

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Certified Industrial Hygienist	1	LS	\$1,500.00	\$1,500.00
Geophysics (Utility Location)	1	LS	\$1,840.00	\$1,840.00
Drillers	1	LS	\$6,532.00	\$6,532.00
Equipment Rental (PID)	1	LS	\$230.00	\$230.00
Equipment Rental (Hand Auger Kit)				
ACM/LBP Evaluation				
Investigation-Derived Waste Characterization and Disposal	1	LS	\$2,001.00	\$2,001.00
Environmental Laboratory Testing	1		\$7,086.00	\$7,086.00
FedEx				
Field Vehicle	1		\$396.00	\$396.00
Permits (City and County of Riverside, City of Jurupa Valley)				

TOTAL ODC'S: **\$19,585.00**

SUB CONSULTANT SERVICES

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL

TOTAL SUBCONSULTANT SERVICES:

TOTAL **\$69,401.30**

MANHOOR WORKSHEET

COMPANY

Diaz-Yourman

SCOPE OF WORK

Plans, Specs & Estimates

PHASE

Phase II - Amend

PROJECT

Replacement of Mission Boulevard Bridge at Santa Ana River (Br. No. 56C-0071)

DATE

January 27, 2023

TASK	PERSONNEL							HOURS	COST
	PRINCIPAL	PRINCIPAL	PROJECT II	STAFF I	FIELD STAFF (PM)	DRAFTSMAN	TECHNICAL EDITOR		

\$301.48 \$301.48 \$159.14 \$97.23 \$175.12 \$82.96 \$128.38

Total Manhours

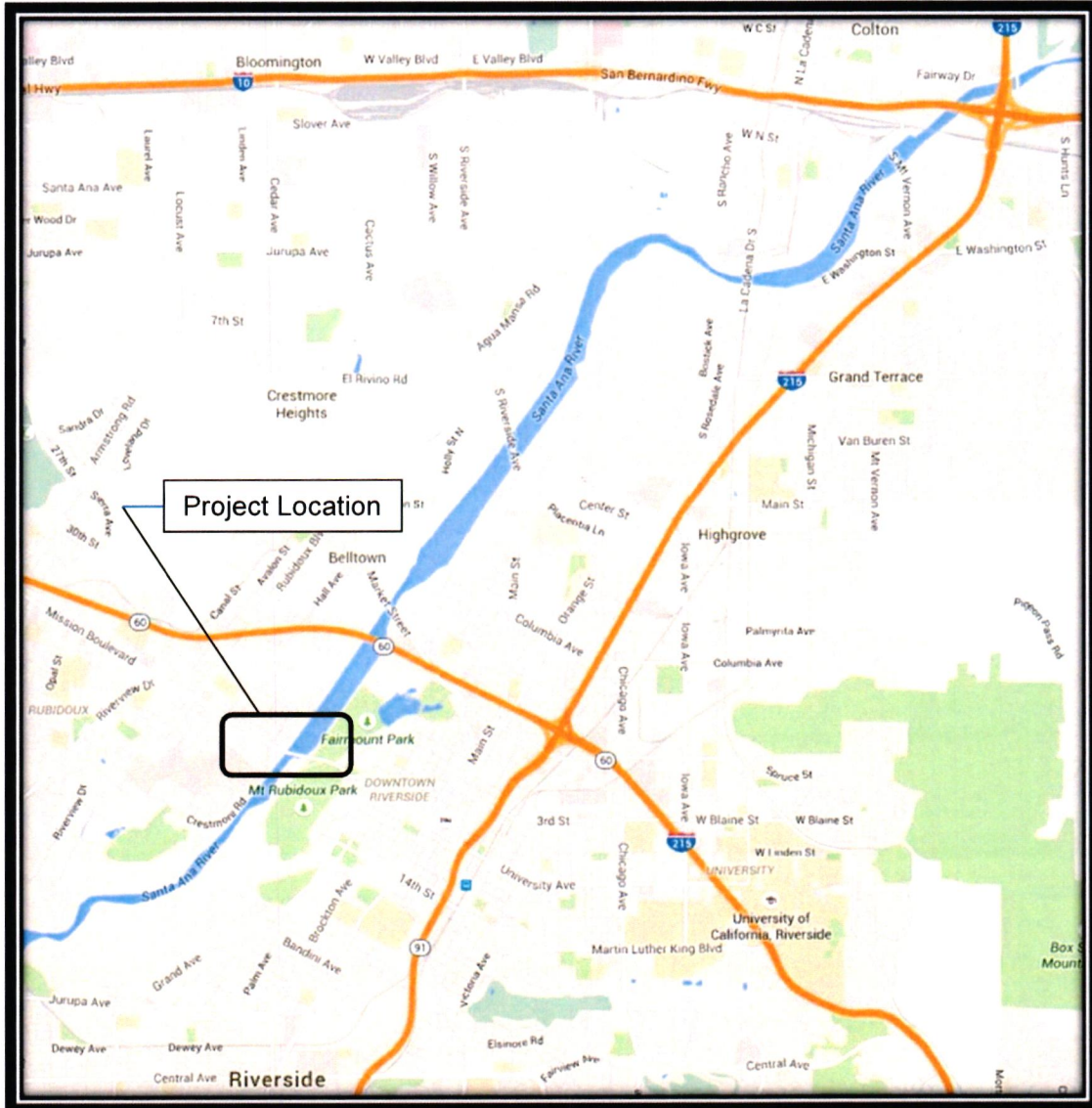
55 6 125 48 18 20 16 288 49,816

ARTICLE AIII - PLANNING AND PROJECT DEVELOPMENT

G. PHASE II SITE ASSESSMENT

TASK	PRINCIPAL	PRINCIPAL	PROJECT II	STAFF I	FIELD STAFF (PM)	DRAFTSMAN	TECHNICAL EDITOR	HOURS	COST
1A_Data Review and Permitting Support	8		12			4		24	\$ 4,654
1B_Work Plan (Phase II Site Assessment for Field Investigation)	14	2	32	16		6	8	78	\$ 12,997
1C_Geophysics and USA Notification			2	12	6			20	\$ 2,536
2A_Subsurface Exploration	1		3	4	12			20	\$ 3,269
2B_Investigation Derived Waste Disposal			2	4				6	\$ 707
3_Laboratory Testing	2		4					6	\$ 1,240
4_Analysis and Reporting (Phase II Site Assessment)	24	4	58	12		10	8	116	\$ 20,695
5_Respond to Comments	6		12					18	\$ 3,719

Mission Boulevard Bridge Replacement Project at Santa Ana River



VICINITY MAP