RIVERSIDE COUNTY TRANSPORTATION COMMISSION

MEETING AGENDA

Western Riverside County Programs and Projects Committee

Time: 1:30 p.m.

Date: February 22, 2021

Pursuant to Governor Newsom's Executive Order N-29-20, (March 18, 2020), the meeting will only be conducted via video conferencing and by telephone.

COMMITTEE MEMBERS

Clint Lorimore, **Chair**/Todd Rigby, City of Eastvale
Ben J. Benoit, **Vice Chair**/Joseph Morabito, City of Wildomar
Wes Speake/Jim Steiner, City of Corona
Linda Krupa/Russ Brown, City of Hemet
Brian Berkson/Chris Barajas, City of Jurupa Valley
Bill Zimmerman/Dean Deines, City of Menifee
Yxstian Gutierrez/Carla Thornton, City of Moreno Valley
Scott Vinton/Christi White, City of Murrieta
Ted Hoffman/To Be Appointed, City of Norco
Michael Vargas/Rita Rogers, City of Perris
Kevin Jeffries, County of Riverside, District I
Jeff Hewitt, County of Riverside, District V

STAFF

Anne Mayer, Executive Director
John Standiford, Deputy Executive Director

AREAS OF RESPONSIBILITY

Air Quality, Capital Projects, Communications and Outreach Programs, Intermodal Programs, Motorist Services, New Corridors, Regional Agencies/Regional Planning, Regional Transportation Improvement Program (RTIP), Specific Transit Projects, State Transportation Improvement Program (STIP) Transportation Uniform Mitigation Fee (TUMF) Program, and Provide Policy Direction on Transportation Programs and Projects related to Western Riverside County and other areas as may be prescribed by the Commission.

RIVERSIDE COUNTY TRANSPORTATION COMMISSION
WESTERN RIVERSIDE COUNTY PROGRAMS AND PROJECTS COMMITTEE

www.rctc.org

AGENDA*

**Actions may be taken on any item listed on the agenda*

1:30 p.m.

Monday, February 22, 2021

Pursuant to Governor Newsom's Executive Order N-29-20, (March 18, 2020), the Western Riverside County Programs and Projects Committee meeting will only be conducted via video conferencing and by telephone. Please follow the instructions below to join the meeting remotely.

INSTRUCTIONS FOR ELECTRONIC PARTICIPATION

Join Zoom Meeting
https://rctc.zoom.us/j/87130105547

Meeting ID: 871 3010 5547

One tap mobile
+16699006833,,87130105547#

Dial by your location
+1 669 900 6833

Meeting ID: 871 3010 5547

For members of the public wishing to submit comment in connection with the Western Riverside County Programs and Projects Committee Meeting please email written comments to the Clerk of the Board at lmobley@rctc.org prior to February 21, 2021 at 5:00 p.m. and your comments will be made part of the official record of the proceedings. Members of the public may also make public comments through their telephone or Zoom connection when recognized by the Chair.

In compliance with the Brown Act and Government Code Section 54957.5, agenda materials distributed 72 hours prior to the meeting, which are public records relating to open session agenda items, will be available for inspection by members of the public prior to the meeting on the Commission's website, www.rctc.org.

In compliance with the Americans with Disabilities Act, Government Code Section 54954.2, Executive Order N-29-20, and the Federal Transit Administration Title VI, please contact the Clerk of the Board at (951) 787-7141 if special assistance is needed to participate in a Committee meeting, including accessibility and translation services. Assistance is provided free of charge. Notification of at least 48 hours prior to the meeting time will assist staff in assuring reasonable arrangements can be made to provide assistance at the meeting.

1. CALL TO ORDER

2. PLEDGE OF ALLEGIANCE

3. ROLL CALL

4. PUBLIC COMMENTS – *Each individual speaker is limited to speak three (3) continuous minutes or less. The Committee may, either at the direction of the Chair or by majority vote of the Committee, waive this three minute time limitation. Depending on the number of items on the Agenda and the number of speakers, the Chair may, at his/her discretion, reduce the time of each speaker to two (2) continuous minutes. Also, the Committee may terminate public comments if such comments become repetitious. In addition, the maximum time for public comment for any individual item or topic is thirty (30) minutes. Speakers may not yield their time to others without the consent of the Chair. Any written documents to be distributed or presented to the Committee shall be submitted to the Clerk of the Board. This policy applies to Public Comments and comments on Agenda Items.*

5. ADDITIONS/REVISIONS *(The Committee may add an item to the Agenda after making a finding that there is a need to take immediate action on the item and that the item came to the attention of the Committee subsequent to the posting of the agenda. An action adding an item to the agenda requires 2/3 vote of the Committee. If there are less than 2/3 of the Committee members present, adding an item to the agenda requires a unanimous vote. Added items will be placed for discussion at the end of the agenda.)*

6. APPROVAL OF MINUTES – JANUARY 25, 2021

7. AMENDMENT TO AGREEMENT WITH PARSONS TRANSPORTATION GROUP TO PROVIDE PROFESSIONAL SERVICES FOR THE PREPARATION OF AN ENVIRONMENTAL REVALIDATION AND PLANS, SPECIFICATIONS, COST ESTIMATES, AND RELATED SERVICES FOR IMPROVEMENTS ON THE STATE ROUTE 71/STATE ROUTE 91 INTERCHANGE PROJECT

Page 1

Overview

This item is for the Committee to:

1) Approve Agreement No. 11-31-110-16, Amendment No. 16 to Agreement No. 11-31-110-00, with Parsons Transportation Group (Parsons) to provide professional services for the preparation of an environmental revalidation and plans, specifications, and cost estimates (PS&E) and related services for improvements on the State Route 71/State Route 91 (71/91) interchange project (Project), from approximately one-quarter mile west of Green River Road to Serfas Club Drive in the city of Corona, for an additional amount of $1,293,547, and a total amount not to exceed $14,167,025;
2) Authorize the Chair or Executive Director, pursuant to legal counsel review, to execute the agreement on behalf of the Commission; and
3) Forward to the Commission for final action.

8. AGREEMENT WITH STANTEC CONSULTING SERVICES, INC., FOR PREPARATION OF THE FINAL ENVIRONMENTAL DOCUMENT, PRELIMINARY ENGINEERING, PLANS, SPECIFICATIONS AND ESTIMATES, AND CONSTRUCTION SUPPORT SERVICES RELATED TO THE SANTA ANA RIVER TRAIL PROJECT PHASES 2, 2A AND 3A IN THE PRADO BASIN

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Overview

This item is for the Committee to:

1) Award Agreement No. 21-67-038-00 to Stantec Consulting Services, Inc. (Stantec) to prepare a final California Environmental Quality Act (CEQA) document; perform preliminary engineering services; prepare plans, specifications, and estimates (PS&E); and provide construction design support services for the construction of Phases 2, 2A and 3A in the Prado Basin of the Santa Ana River Trail (SART 1) project (Project) in the amount of $714,039, plus a contingency amount of $107,105 for potential changes in scope, for a total amount not to exceed $821,144;
2) Authorize the Executive Director or designee to approve contingency work as may be required for the Project;
3) Authorize the Chair or Executive Director, pursuant to legal counsel review, to finalize and execute the agreement on behalf of the Commission; and
4) Forward to the Commission for final action.

9. COMMISSIONERS / STAFF REPORT

Overview

This item provides the opportunity for the Commissioners and staff to report on attended and upcoming meeting/conferences and issues related to Commission activities.

10. ADJOURNMENT

The next Western Riverside County Programs and Projects Committee meeting is scheduled to be held at **1:30 p.m., Monday, March 22, 2021,** Board Chambers, First Floor, County Administrative Center, 4080 Lemon Street, Riverside.

AGENDA ITEM 6

MINUTES

RIVERSIDE COUNTY TRANSPORTATION COMMISSION

WESTERN RIVERSIDE COUNTY PROGRAMS AND PROJECTS COMMITTEE

Monday, January 25, 2021

MINUTES

1. CALL TO ORDER

The meeting of the Western Riverside County Programs and Projects Committee was called to order by Chair Michael Vargas at 1:30 p.m. via Zoom Meeting ID: 823 4424 8274. Pursuant to Governor Newsom's Executive Order N-29-20, (March 18, 2020), the Western Riverside County Programs and Projects Committee meeting will only be conducted via video conferencing and by telephone.

2. PLEDGE OF ALLEGIANCE

At this time, Chair Vargas led the Western Riverside County Programs and Projects Committee in a flag salute.

3. ROLL CALL

Members/Alternates Present	Members Absent
Ben Benoit	Yxstian Gutierrez
Brian Berkson	
Berwin Hanna	
Jeff Hewitt	
Kevin Jeffries	
Linda Krupa	
Clint Lorimore	
Wes Speake	
Michael Vargas	
Scott Vinton	
Bill Zimmerman	

4. PUBLIC COMMENTS

There were no requests to speak.

5. ADDITIONS/REVISIONS

There were no additions or revisions.

6. APPROVAL OF MINUTES – NOVEMBER 23, 2020

M/S/C (Zimmerman/Hewitt) to approve the minutes as submitted.

Abstain: Hoffman

7. AGREEMENT FOR ON-CALL PAINTING SERVICES FOR THE COMMUTER RAIL STATIONS AND TOLL FACILITIES

Gary Ratliff, Facilities Administrator, presented the scope of the agreement for on-call painting services for the commuter rail stations and toll facilities.

Mr. Ratliff clarified for Commissioner Ted Hoffman the reason for the increased agreement amount is because of the increase in Commission facilities. Only one firm is awarded the contract.

Mr. Ratliff confirmed for Commissioner Scott Vinton that the amount awarded is not to be exceeded.

M/S/C (Krupa/Vinton) to:

1) **Award Agreement 21-24-013-00 to US National Corp DBA Jimenez Painting to provide on-call painting services for the commuter rail stations and toll facilities for a three-year term, with two two-year options to extend the agreement in an amount not to exceed $4.5 million;**
2) **Authorize the Chair or Executive Director, pursuant to legal counsel review, to execute the agreement, on behalf of the Commission;**
3) **Authorize the Executive Director, or designee, to execute task orders awarded to the contractor under the terms of the agreement; and**
4) **Forward to the Commission for final action.**

8. AMENDMENT TO CITY OF RIVERSIDE'S FY 2020/21 SHORT RANGE TRANSIT PLAN

Eric DeHate, Transit Manager, presented the details of the amendment to the city of Riverside's FY 2020/21 Short Range Transit Plan.

M/S/C (Speake/Benoit) to:

1) **Approve a $16,000 increase in the FY 2020/21 Local Transportation Fund (LTF) funding allocation for the city of Riverside (City);**
2) **Amend the City's FY 2020/21 Short Range Transit Plan (SRTP) to increase the LTF operating allocation in the amount of $16,000 for preventative maintenance operating expenses; and**

3) Forward to the Commission for final action.

9. CHANGE ORDER TO AMEND THE INTERSTATE 15 EXPRESS LANES PROJECT TOLL SERVICES AGREEMENT WITH KAPSCH TRAFFICCOM USA TO PROVIDE MAINTENANCE SERVICES FOR THE 91 EXPRESS LANES ROADSIDE TOLLING SYSTEM

Jennifer Crosson, Toll Operations Manager, presented the details of the change order to amend the I-15 ELP toll services agreement with Kapsch TrafficCom USA to provide maintenance services for the 91 Express Lanes roadside tolling system.

In response to Commissioner Speake's question regarding the delay of the I-15 Express Lanes, Ms. Crosson stated the delay is not tied to the 91 Express Lanes operation. This change order is specifically for the 91 Express Lanes and was added to this contract because of the funding.

Ms. Mayer added the toll system implementation on I-15 is progressing well and staff will have more information on that soon.

Ms. Crosson clarified for Commissioner Ted Hoffman that Kapsch is a sole provider and provide their services across all the toll systems.

M/S/C (Benoit/Speake) to:

1) Approve Change Order No. 7B to Agreement No. 16-31-043-00 for the Interstate 15 Express Lanes Project (I-15 ELP) with Kapsch TrafficCom USA Inc. (Kapsch) to provide five years of maintenance services (March 2021 through February 2026) for the 91 Express Lanes Roadside Tolling System in the amount of $4,387,410, plus a contingency amount of $500,000, for a total amount not to exceed $4,887,410;
2) Authorize the Chair or Executive Director, pursuant to legal counsel review, to execute the change order on behalf of the Commission;
3) Authorize the Executive Director or designee to approve contingency work up to the total amount not to exceed as required for the project; and
4) Forward to the Commission for final action.

10. ELECTION OF OFFICERS FOR THE WESTERN RIVERSIDE COUNTY PROGRAMS AND PROJECTS COMMITTEE

Lisa Mobley, Clerk of the Board, stated this item is for the Western Riverside County Programs and Projects Committee to conduct an election of the officers for 2021.

At this time, Chair Vargas opened nominations for the Chair position.

Commissioner Linda Krupa, seconded by Commissioner Wes Speake, nominated Vice Chair Clint Lorimore for the Chair position for 2021.

No other nominations were received. The Chair closed the nominations. Clint Lorimore was elected as the Western Riverside County Programs and Projects Committee's Chair for 2021.

The Chair then opened nominations for the Vice Chair position for 2021. Commissioner Ben Benoit, seconded by Commissioner Clint Lorimore, nominated Commissioner Ben Benoit for the Vice Chair position for 2021.

No other nominations were received. The Chair closed the nominations. Commissioner Ben Benoit was elected as the Western Riverside County Programs and Projects Committee's Vice Chair for 2021.

11. COMMISSIONERS / STAFF REPORT

Anne Mayer announced the I-15 Toll Lanes are moving forward and getting closer to opening and an announcement will be made next month.

Commissioner Hewitt congratulated Commissioner Lorimore on his new position as Chair of the WRC. Also thanked Commissioner Vargas for being a great Chair for the past year.

Commissioner Lorimore also thanked Commissioner Vargas for being a great Chair and hopes he will be able to lead the Committee as well as Commissioner Vargas did.

12. ADJOURNMENT

There being no further business for consideration by the Western Riverside County Programs and Projects Committee, the meeting was adjourned at 2:00 p.m.

Respectfully submitted,

Lisa Mobley
Clerk of the Board

AGENDA ITEM 7

RIVERSIDE COUNTY TRANSPORTATION COMMISSION	
DATE:	February 22, 2021
TO:	Western Riverside County Programs and Projects Committee
FROM:	Bryce Johnston, Capital Projects Manager
THROUGH:	Marlin Feenstra, Project Delivery Director
SUBJECT:	Amendment to Agreement with Parsons Transportation Group to Provide Professional Services for the Preparation of an Environmental Revalidation and Plans, Specifications, Cost Estimates, and Related Services for Improvements on the State Route 71/State Route 91 Interchange Project

STAFF RECOMMENDATION:

This item is for the Committee to:

1) Approve Agreement No. 11-31-110-16, Amendment No. 16 to Agreement No. 11-31-110-00, with Parsons Transportation Group (Parsons) to provide professional services for the preparation of an environmental revalidation and plans, specifications, and cost estimates (PS&E) and related services for improvements on the State Route 71/State Route 91 (71/91) interchange project (Project), from approximately one-quarter mile west of Green River Road to Serfas Club Drive in the city of Corona, for an additional amount of $1,293,547, and a total amount not to exceed $14,167,025;
2) Authorize the Chair or Executive Director, pursuant to legal counsel review, to execute the agreement on behalf of the Commission; and
3) Forward to the Commission for final action.

BACKGROUND INFORMATION:

The Project was identified and approved by the voters in 2009 as part of Measure A and was included in the 2009 Measure A 10-Year Western Riverside County Highway Delivery Plan. The Project will improve mobility on SR-91 and SR-71 by enhancing operations and the capacity of the 71/91 interchange by constructing a new, direct connector ramp from eastbound SR-91 to northbound SR-71 and reconfiguring the eastbound SR-91 ramp between Green River Road and the 71/91 interchange. The Project is also included in the SR-91 Implementation Plan adopted by the Commission.

At its February 2012 meeting, the Commission awarded Agreement No. 11-31-110-00 to Parsons to provide engineering services for the Project in the amount of $8,136,031, plus a contingency of $804,537, for a total amount not to exceed $8,940,568. There have been 15 amendments to the agreement with two amendments resulting in a change in the original Commission authorization amount, as shown in the table below.

Agreement	Authorization Date	Authorization Amount	Agreement Amount
Original Agreement	February 2, 2012	$ 8,940,568	$ 8,136,031
Amendment No. 1	September 20, 2012	0	0
Amendment No. 2	March 19, 2013	N/A (use of contingency)	392,716
Amendment No. 3	December 5, 2014	0	0
Amendment No. 4	December 28, 2015	0	0
Amendment No. 5	September 1, 2016	0	0
Amendment No. 6	January 1, 2018	0	0
Amendment No.7	April 11, 2018	3,932,910	3,575,373
Amendment No. 8	May 7, 2018	0	0
Amendment No. 9	May 14, 2019	0	0
Amendment No. 10	July 30, 2109	0	0
Amendment No. 11	December 19, 2019	0	0
Amendment No. 12	June 26, 2020	0	0
Amendment No. 13	July 23, 2020	0	0
Amendment No. 14	October 26, 2020	0	0
Amendment No. 15	November 30, 2020	0	0
Subtotal		12,873,478	12,104,120
Amendment No. 16 (proposed)	*March 10, 2021*	*1,293,547*	*1,293,547*
	Total	**$ 14,167,025**	**$ 13,397,667**

The environmental document was prepared by Parsons under a separate contract and approved in June 2011 and revalidated in November 2014. Subsequently, Parsons prepared the PS&E package for the Project, which was conditionally approved by Caltrans in June 2015. Since that time, the Commission has been acquiring right of way and relocating conflicting utilities required for the Project in anticipation that construction funding would eventually become available.

On December 2, 2020, the California Transportation Commission approved Senate Bill 1 Trade Enhancement Corridor Program funds for construction of this project.

Due to the length of time since approval of the latest environmental document revalidation, the environmental document needs to be revalidated again, and the PS&E needs to be revised per current Caltrans Highway Design Manual standards prior to construction. These tasks were started over a year ago as full funding appeared more likely.

As the Project progressed, various out of scope items came up during the environmental and engineering tasks. In order to keep the Project on schedule, staff issued a series of amendments reallocating contract cost budgets from construction support services to cover these tasks with the understanding that a future amendment would be needed to replenish the reallocated

budgets as well as cover additional out of scope tasks (see Exhibits A and B). The changes to the Project scope include:

- Updated topographic surveys along the west side of SR-71 where retaining walls are proposed due to noticeable erosion;
- Supplemental Environmental Assessment (EA) required by U.S. Army Corps of Engineers (USACE) due to the length of time elapsed from the approval of the original EA;
- Supplemental noise analysis including new noise measurements, a Supplemental Noise Study Report, and a Supplemental Noise Abatement Decision Report required by Caltrans due to a change in existing conditions (i.e., 91 Corridor Improvement Project construction completion) from when the original analysis was performed;
- Revised right of way requirement maps due to the Commission's ongoing negotiations with property owners;
- Obtaining Caltrans approval to utilize 55-hour closures to construct and take down falsework over SR-91 instead of utilizing repetitive night closures;
- Updating Traffic Management Plan to incorporate 55-hour closures and preparing detour plans;
- Revised property owner driveway design and grading/drainage improvement adjacent to driveway based on the Commission's ongoing negotiations with the property owner;
- Updating the retaining wall designs due to new seismicity requirements from Caltrans;
- Adding a right turn pocket along Green River Road due to negotiations with the city of Corona;
- Preparation of Chino Hills State Park Right-of-Entry Permit Application and relinquishment of permit fee;
- Right of way support for eminent domain process;
- Revised USACE driveway design and addition of median barrier with sliding barrier for emergency access;
- Preparation of Traffic Index Memo and revised pavement sections for Caltrans approval;
- Preparation of Landscape Fact Sheet to construct landscaping as part of overall Project;
- Preparation of Ramp Metering Exception to document no meters at connector ramps and addition of Traffic Monitoring Station as part of the agreed to mitigation; and
- Revised electrical service point design adjacent and through Green River Properties per the Commission's on-going negotiations with the property owner.

Staff negotiated a scope of services and cost with Parsons for Amendment No. 16, which was determined to be fair and reasonable, to complete the environmental document revalidation, revise the PS&E, and provide bidding and construction phase support in the amount of $1,293,547, for a total amount not to exceed to $14,167,025. This will enable the effort to finalize the PS&E, bring the Project to a state of "Ready-To-List," and prepare the construction contract for advertisement.

Staff recommends approval of Amendment No. 16 to the agreement and authorization for the Chair or Executive Director, pursuant to legal counsel review, to execute the agreement on behalf of the Commission.

Financial Information							
In Fiscal Year Budget:	N/A	Year:	FY 2021/22+	Amount:	$1,293,547		
Source of Funds:	SB 1 Local Partnership Program Formula funds, 2009 Measure A Western Riverside Highway funds, federal Surface Transportation Block Grant			Budget Adjustment:		N/A	
GLA/Project Accounting No.:	003021 81102 00000 0000 262 31 81101						
Fiscal Procedures Approved:	Theresia Trevino			Date:	02/22/2021		

Attachments:

1) Exhibit A – Scope of Work
2) Exhibit B – Fee
3) Exhibit C – Draft Agreement No. 11-31-110-16

EXHIBIT A

SR 71/SR 91 Interchange Improvement Project

Scope of Work (Amendment #16)

Background:

The Riverside County Transportation Commission (RCTC), in cooperation with Caltrans, proposes to improve the existing State Route 71 (SR-71)/State Route 91 (SR-91) interchange (Project) in the City of Corona, Riverside County. The proposed improvements include constructing a new direct connector from eastbound (EB) SR-91 to northbound (NB) SR-71 and reconfiguring the EB SR-91 ramp between Green River Road and the SR 71/91 interchange. The proposed project is anticipated to improve mobility on SR-91 and SR-71 by enhancing operations and capacity at the SR 71/91 interchange. The project limits extend from postmile (PM) R0.9 to PM R2.6 along SR-91 and PM 1.9 to PM R3.0 along SR-71.

Final design for the project was completed in March 2015. The Final Structure Plans for three (3) bridges and eight (8) nonstandard retaining walls were approved and signed by Caltrans. Additionally, Caltrans provided 'Conditional Approval' on the 100% Plans, Specifications, and Estimate (PS&E) Package in March 2015. Due to a lack of funding, the Project plans were shelved in March 2015.

In May 2018, RCTC approved Amendment No. 7 for the project for the purpose of 'unshelving' the project, updating the PS&E to current standards, and obtaining final design approval. Amendment No. 7 included scope and fee for Design Support During Construction and As-Built Drawing preparation. However, during the 'unshelving' process, RCTC, Caltrans, and USACE requested several changes to the scope of work that resulted in 'no cost change' amendments to the contract in which budget from the future Construction Support and As-Built Drawing preparation tasks were redistributed to cover the changes in scope required by the various agencies. Below is a summary of these amendments that were approved by RCTC:

- Amendment No. 11; December 19, 2019 – transfer budget to perform updated survey along the existing slopes along the west side of SR 71 due to noticeable erosion at the locations of proposed retaining walls.
- Amendment No. 12, June 26, 2020 – transfer budget to prepare Supplemental Environmental Assessment required by USACE, Supplemental Noise Analysis required by Caltrans, Revised Right-of-Way Requirement Maps requested by RCTC due to negotiations with property owners, and scope of work to obtain approval to utilize 55-hour closures for falsework installation/takedown.
- Amendment No. 14, October 26, 2020 – transfer of budget to revise Sukut driveway design requested by RCTC based on negotiations with property owner, revise Standard Type 1 Retaining Walls due to new seismicity requirements as required by Caltrans, add right turn pocket along Green River Road requested by RCTC in coordination with the City of Corona, and falsework design alternatives and E91-N71 Connector column design analysis and workshops per RCTC's request.

Additional Scope of Work Summary:

The additional scope of work in this Amendment No. 16 includes:

- Scope and fee to replenish the Design Support During Construction and As-Built Drawing preparation tasks depleted by the above-mentioned amendments.
- Chino Hills State Park Right-of-Entry Permit Application and Coordination.
- Right-of-Way Support for Green River Properties Eminent Domain process.
- Revised USACE driveway design and addition of median barrier with sliding barrier for emergency access.
- Revised grading and drainage design adjacent to Sukut properties per RCTC's negotiations with the property owner.

- Revised TMP Data Sheet, addition of detour plans, and revisions to stage construction plans to incorporate 55-hour closures which have been approved by Caltrans.
- Calculation of revise Traffic Index (TI) and preparation of TI Memo for Caltrans approval.
- Preparation of Landscape Fact Sheet to construct landscaping as part of overall project per Caltrans PDPM policy.
- Ramp Metering Exception to document no meters at connector ramps and addition of Traffic Monitoring Station to the design plans as part of the agreed to mitigation.
- Revised electrical design and electrical service point design adjacent to Green River Properties per RCTC's negotiations with the property owner.

1.0 Project Management PS&E Component - (WBS 100.15)

1.1 Project Controls & Administration

Acting as Prime Consultant, Consultant will execute subcontracts with sub-Consultants and direct their work. Prime contract terms and conditions will be incorporated into the subcontract agreements. Consultant will be the primary contact for RCTC. This task will also include communication/ coordination efforts by the Project Manager as part of the overall management of the project. It is assumed this task will extend through construction completion (September 2024).

1.2 Project Management Plan (PMP)

No additional scope is required for this task.

1.3 Meetings

It is assumed there will be an average of two (2) meetings per month through December 2021 (including the monthly PDT meeting). Consultant will prepare and distribute agendas prior to the meetings and meeting minutes after the meetings. It Is assumed there will be an average of one (1) meeting per month between RTL (December 2021) and Construction Completion (September 2024).

1.4 Encroachment Permits/Permits to Enter

No additional scope is required for this task.

1.5 Progress Payment

Consultant will submit a progress payment invoice to RCTC for services completed on a monthly basis. The invoice will be detailed so it can be verified and approved by RCTC on a timely basis. It is assumed this task will extend through construction completion (September 2024).

Deliverables: Monthly Progress Report, Monthly Invoice

1.6 Maintain Complete Project Files

No additional scope is required for this task.

2.0 Utilities (WBS 185.20.40)

No additional scope is required for this task.

3.0 Right of Way (WBS 185)

3.1 Chino Hills State Park Right-of-Entry Permit

Consultant will prepare and submit Right-of-Entry (ROE) permit application to Chino Hills State Park (CHSP) and coordinate with CHSP to obtain ROE permit.

3.2 Right-of-Way Support for Green River Properties Eminent Domain

Consultant will support RCTC and their ROW Consultant in the eminent domain process by providing exhibits and documentation as needed.

4.0 Mapping and Surveys (WBS 185)

No additional scope is required for this task.

5.0 Environmental Support (WBS 165)

5.1 Environmental Revalidation

5.1.1 Public-Quasi-Public Land Replacement Memorandum

Consultant will prepare Public-Quasi-Public (PQP) Land Replacement Memorandum for concurrence by Western Riverside County Regional Conservation Authority (RCA). This task includes two iterations of field survey to identify potential mitigation land on the existing Sukut property, preparation of the PQP Land Replacement Memo and coordination with RCA for approval.

Deliverables: PQP Land Replacement Memorandum (2 iterations)

5.2 Agreements During PS&E Component (WBS 205)

No additional scope is required for this task.

5.3 Railroad Agreements

No additional scope is required for this task.

6.0 Geotechnical Studies

No additional scope is required for this task.

7.0 Preliminary Design and Engineering Reports

No additional scope is required for this task.

8.0 Roadway - Draft Plans and Estimate (WBS 230)

No additional scope is required for this task.

9.0 Roadway - Intermediate PS&E (WBS 230)

9.1 95%-1 Roadway PS&E

No additional scope is required for this task.

9.2 95%-2 Roadway PS&E

No additional scope is required for this task.

9.3 95%-3 Roadway PS&E

Consultant will update the 95%-2 PS&E Package to incorporate comments received from Caltrans, RCTC, and USACE. Specifically, the following changes will be incorporated into the design prior to the 100% PS&E submittal:

- Revise design to close median gap at Sukut and USACE driveways. A sliding barrier system will be utilized at USACE driveway to provide emergency access.
- Revise grading design and drainage design adjacent to Sukut properties per RCTC's negotiations with the property owner.
- Revise electrical design and electrical service point design adjacent to Green River Properties per RCTC's negotiations with the property owner.
- Revise TMP Data Sheet to incorporate 55-hour closures which have been approved by Caltrans.
- Add detour plans and revise stage construction plans to incorporate 55-hour closures.
- Calculations for revised Traffic Index (TI) and preparation of TI Memo for Caltrans approval.
- Preparation of Landscape Fact Sheet to construct landscaping as part of overall project per Caltrans PDPM policy.
- Ramp Metering Exception to document no meters at connector ramps and addition of Traffic Monitoring Station to the design plans as part of the agreed to mitigation.

Consultant will prepare the 95%-3 Roadway PS&E which will include the following:

9.3.1 Updated Roadway Plans

Consultant will update the Roadway Plans per comments from Caltrans, RCTC, and USACE on the 95%-2 Roadway Submittal.

9.3.2 Updated Roadway Specifications

Consultant will update the Roadway Specifications per comments from Caltrans, RCTC, and USACE on the 95%-2 Roadway Submittal.

9.3.3 Updated Roadway Estimate

Consultant will update the Roadway Estimate per comments from Caltrans, RCTC, and USACE on the 95%-2 Roadway Submittal.

Deliverable: 95%-3 Roadway Plans, Specifications and Estimates; Storm Water Data Report; Hydrology & Hydraulics Report; Transportation Management Plan Data Sheet

10.0 Structures - Draft Plans and Quantities (WBS 240)

No additional scope is required for this task.

11.0 Structures - Intermediate PS&E (240.85)

11.1 Initial PS&E (95%-1)

No additional scope is required for this task.

11.2 Intermediate PS&E (95%-2)

No additional scope is required for this task.

11.3 Revised Intermediate PS&E (95%-3)

Consultant will revise the design to address new Caltrans geotechnical comments related to:

- Potential liquefaction induced settlement at RW G289R
- Potential hydro-consolidation settlement at project MSE walls
- Potential static settlement at RW's C74L and S437L

Consultant will update the Structure Plans, Cost Estimate, and Structure Special Provisions to address the geotechnical comments and resubmit for final approval from OSFP and District 8.

12.0 Ready to List Process

No additional scope is required for this task.

13.0 Bid and Construction Support

13.1 Bid Support

Consultant will attend the pre-construction and pre-bid meetings. Consultant will assist in answering questions regarding special provisions, design drawings, or conflicts in the design during the bidding process.

13.1.1 Construction Management On-Boarding and Coordination

Consultant will assist RCTC with onboarding the Construction Management team including preparing the RE Pending File.

13.2 Design Support During Construction

13.2.1 Roadway Design Support

Consultant will answer contractor roadway related Request for Interpretations (RFIs) during construction and prepare any necessary Contract Change orders (CCOs) should they be deemed necessary.

Deliverable: Roadway Design Support

13.2.2 Structures Design Support

Consultant will answer contractor structure related RFIs during construction and prepare any necessary Contract Change orders (CCOs) should they be deemed necessary. Consultant will review submittals and shop-drawings related to structures work for conformance to the bid documents and overall intent of the design.

Deliverable: Structure Design Support

13.3 As-Built Drawings

Consultant will incorporate As-Built redline comments prepared by the contractor and Resident Engineer on the signed Design Plans. The As-Built drawings will be updated MicroStation design files.

Deliverable: As-Built Drawings

EXHIBIT B

SR-71/91 IC PS&E

BUDGET SUMMARY (Amendment No 16)

No.	Description	Amendment No 16 Cost Proposal
1.0	Project Management	**$127,880**
3.0	Right of Way	**$18,314**
5.0	Environmental Support	**$43,126**
9.0	Roadway - Intermediate PS&E	**$152,393**
11.0	Structures - Intermediate PS&E	**$290,686**
13.0	Bid and Construction Support	**$661,148**
	TOTAL:	**$1,293,547**

SR-71/91 PS&E (Amendment 16)

	Total	Parsons																	
		Project Manager	Senior Project Engineer	Engineer II	Engineer I	Associate Engineer	Engineering Manager - Electrical	Engineering Manager - Traffic	Senior Engineer - Traffic	Senior Administrator	Environmental Manager	Senior Environmental Planner	Environmental Planner	Senior Landscape Architect	Structures Manager	Senior Structures Engineer	Structures Project Engineer	Structures Engineer/Designer	Structures CADD	Total
Task 1.0 Project Management PS&E Component																			
1.1 Project Controls & Administration	200	200																	200
1.3 Meetings	380	80	60				10	10	10		60	60	20		60	10				380
1.5 Progress Payment	120	60								60										120
TOTAL HOURS - TASK 1.0	700	340	60	0	0	0	10	10	10	60	60	60	20	0	60	10	0	0	0	700
HOURLY RATE		$85.48	$63.69	$47.60	$35.10	$33.65	$80.11	$79.74	$52.00	$37.00	$68.00	$55.00	$35.00	$64.00	$100.00	$85.00	$65.00	$50.00	$50.00	
TOTAL DIRECT LABOR	$52,153.10	$29,063.20	$3,821.40	$0.00	$0.00	$0.00	$801.10	$797.40	$520.00	$2,220.00	$4,080.00	$3,300.00	$700.00	$0.00	$6,000.00	$850.00	$0.00	$0.00	$0.00	$52,153.10
TOTAL MULTIPLIERS	$64,101.38	$35,721.58	$4,696.88	$0.00	$0.00	$0.00	$984.63	$980.08	$639.13	$2,728.60	$5,014.73	$4,056.03	$860.37	$0.00	$7,374.60	$1,044.74	$0.00	$0.00	$0.00	$64,101.38
TOTAL FEES	$11,625.45	$6,478.48	$851.83	$0.00	$0.00	$0.00	$178.57	$177.75	$115.91	$494.86	$909.47	$735.60	$156.04	$0.00	$1,337.46	$189.47	$0.00	$0.00	$0.00	$11,625.45
TOTAL COST - TASK 1.0	**$127,880**	$71,263	$9,370	$0	$0	$0	$1,964	$1,955	$1,275	$5,443	$10,004	$8,092	$1,716	$0	$14,712	$2,084	$0	$0	$0	**$127,880**
Task 3.0 Right of Way																			
3.1 Chino Hills State Park Right of Entry Permit	60		40									20								60
3.2 Right-of-Way Support for Green River Properties Eminent Domain	60		60																	60
TOTAL HOURS - TASK 3.0	120	0	100	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	120
HOURLY RATE		$85.48	$63.69	$47.60	$35.10	$33.65	$80.11	$79.74	$52.00	$37.00	$68.00	$55.00	$35.00	$64.00	$100.00	$85.00	$65.00	$50.00	$50.00	
TOTAL DIRECT LABOR	$7,469.00	$0.00	$6,369.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,100.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$7,469.00
TOTAL MULTIPLIERS	$9,180.15	$0.00	$7,828.14	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,352.01	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$9,180.15
TOTAL FEES	$1,664.91	$0.00	$1,419.71	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$245.20	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,664.91
TOTAL COST - TASK 3.0	**$18,314**	$0	$15,617	$0	$0	$0	$0	$0	$0	$0	$0	$2,697	$0	$0	$0	$0	$0	$0	$0	**$18,314**
Task 5.0 Environmental Support																			
5.1.1 Public-Quasi-Public Land Replacement Memorandum	359										111	68	180							359
TOTAL HOURS - TASK 5.0	359	0	0	0	0	0	0	0	0	0	111	68	180	0	0	0	0	0	0	359
HOURLY RATE		$85.48	$63.69	$47.60	$35.10	$33.65	$80.11	$79.74	$52.00	$37.00	$68.00	$55.00	$35.00	$64.00	$100.00	$85.00	$65.00	$50.00	$50.00	
TOTAL DIRECT LABOR	$17,588.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$7,548.00	$3,740.00	$6,300.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$17,588.00
TOTAL MULTIPLIERS	$21,617.41	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$9,277.25	$4,596.83	$7,743.33	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$21,617.41
TOTAL FEES	$3,920.54	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,682.52	$833.68	$1,404.33	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$3,920.54
TOTAL COST - TASK 5.0	**$43,126**	$0	$0	$0	$0	$0	$0	$0	$0	$0	$18,508	$9,171	$15,448	$0	$0	$0	$0	$0	$0	**$43,126**
Task 9.0 Roadway - Intermediate PS&E																			
9.3 95%-3 Roadway PS&E	1340		300	300	240	400	40	20	40											1340
TOTAL HOURS - TASK 9.0	1340	0	300	300	240	400	40	20	40	0	0	0	0	0	0	0	0	0	0	1340
HOURLY RATE		$85.48	$63.69	$47.60	$35.10	$33.65	$80.11	$79.74	$52.00	$37.00	$68.00	$55.00	$35.00	$64.00	$100.00	$85.00	$65.00	$68.00	$68.00	
TOTAL DIRECT LABOR	$62,150.20	$0.00	$19,107.00	$14,280.00	$8,424.00	$13,460.00	$3,204.40	$1,594.80	$2,080.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$62,150.20
TOTAL MULTIPLIERS	$76,388.81	$0.00	$23,484.41	$17,551.55	$10,353.94	$16,543.69	$3,938.53	$1,960.17	$2,556.53	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$76,388.81
TOTAL FEES	$13,853.90	$0.00	$4,259.14	$3,183.15	$1,877.79	$3,000.37	$714.29	$355.50	$463.65	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$13,853.90
TOTAL COST - TASK 9	**$152,393**	$0	$46,851	$35,015	$20,656	$33,004	$7,857	$3,910	$5,100	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	**$152,393**
Task 11.0 Structures - Intermediate PS&E																			
11.3 Revised Intermediate PS&E (95%-3)	1640														410	270	440	240	280	1640
TOTAL HOURS - TASK 11.0	1640	0	0	0	0	0	0	0	0	0	0	0	0	0	410	270	440	240	280	1640
HOURLY RATE		$85.48	$63.69	$47.60	$35.10	$33.65	$80.11	$79.74	$52.00	$37.00	$68.00	$55.00	$35.00	$64.00	$100.00	$85.00	$65.00	$50.00	$50.00	
TOTAL DIRECT LABOR	$118,550.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$41,000.00	$22,950.00	$28,600.00	$12,000.00	$14,000.00	$118,550.00
TOTAL MULTIPLIERS	$145,709.81	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$50,393.10	$28,207.85	$35,152.26	$14,749.20	$17,207.40	$145,709.81
TOTAL FEES	$26,425.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$9,139.31	$5,115.78	$6,375.23	$2,674.92	$3,120.74	$26,425.98
TOTAL COST - TASK 11	**$290,686**	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$100,532	$56,274	$70,127	$29,424	$34,328	**$290,686**
Task 13.0 Bid and Construction Support																			
13.1.1 Construction Management On-Boarding and Coordination	280		100												100	80				280
13.2 Design Support During Construction																				0
13.2.1 Roadway Design Support	1780		120	260	300	300	200	240	300					60						1780
13.2.2 Structures Design Support	1720														120	600	400	300	300	1720
13.3 As-Built Drawings	638		30	100	100	100	20	20						20	8	40			200	638
TOTAL HOURS - TASK 13.0	4418	0	250	360	400	400	220	260	300	0	0	0	0	80	228	720	400	300	500	4418
HOURLY RATE		$85.48	$63.69	$47.60	$35.10	$33.65	$80.11	$79.74	$52.00	$37.00	$68.00	$55.00	$35.00	$64.00	$100.00	$85.00	$65.00	$50.00	$50.00	
TOTAL DIRECT LABOR	$269,635.10	$0.00	$15,922.50	$17,136.00	$14,040.00	$13,460.00	$17,624.20	$20,732.40	$15,600.00	$0.00	$0.00	$0.00	$0.00	$5,120.00	$22,800.00	$61,200.00	$26,000.00	$15,000.00	$25,000.00	$269,635.10
TOTAL MULTIPLIERS	$331,408.50	$0.00	$19,570.34	$21,061.86	$17,256.56	$16,543.69	$21,661.90	$25,482.19	$19,173.96	$0.00	$0.00	$0.00	$0.00	$6,292.99	$28,023.48	$75,220.92	$31,956.60	$18,436.50	$30,727.50	$331,408.50
TOTAL FEES	$60,104.36	$0.00	$3,549.28	$3,819.79	$3,129.66	$3,000.37	$3,928.61	$4,621.46	$3,477.40	$0.00	$0.00	$0.00	$0.00	$1,141.30	$5,082.35	$13,642.09	$5,795.66	$3,343.65	$5,572.75	$60,104.36
TOTAL COST - TASK 13	**$661,148**	$0	$39,042	$42,018	$34,426	$33,004	$43,215	$50,836	$38,251	$0	$0	$0	$0	$12,554	$55,906	$150,063	$63,752	$36,780	$61,300	**$661,148**
TOTAL PROJECT HOURS	**8577**	**340**	**710**	**660**	**640**	**800**	**270**	**290**	**350**	**60**	**171**	**148**	**200**	**80**	**698**	**1000**	**840**	**540**	**780**	**8577**
TOTAL PROJECT COST	**$1,293,547**	$71,263	$110,880	$77,032	$55,082	$66,008	$53,036	$56,702	$44,627	$5,443	$28,512	$19,959	$17,164	$12,554	$171,150	$208,421	$133,880	$66,204	$95,628	$1,293,547

COST PROPOSAL

Parsons

LABOR COSTS

NAME	FUNCTION	HOURS	RATE	AMOUNT
	Project Manager	340	**$85.48**	$29,063.20
	Senior Project Engineer	710	**$63.69**	$45,219.90
	Engineer II	660	**$47.60**	$31,416.00
	Engineer I	640	**$35.10**	$22,464.00
	Associate Engineer	800	**$33.65**	$26,920.00
	Engineering Manager - Electrical	270	**$80.11**	$21,629.70
	Engineering Manager - Traffic	290	**$79.74**	$23,124.60
	Senior Engineer - Traffic	350	**$52.00**	$18,200.00
	Senior Administrator	60	**$37.00**	$2,220.00
	Environmental Manager	171	**$68.00**	$11,628.00
	Senior Environmental Planner	148	**$55.00**	$8,140.00
	Environmental Planner	200	**$35.00**	$7,000.00
	Senior Landscape Architect	80	**$64.00**	$5,120.00
	Structures Manager	698	**$100.00**	$69,800.00
	Senior Structures Engineer	1,000	**$85.00**	$85,000.00
	Structures Project Engineer	840	**$65.00**	$54,600.00
	Structures Engineer/Designer	540	**$50.00**	$27,000.00
	Structures CADD	780	**$50.00**	$39,000.00
	TOTAL HOURS	**8,577**		**TOTAL LABOR** **$527,545**

INDIRECT COSTS (OVERHEAD)

ESCALATION	**0.00%**	
OVERHEAD	**122.91%**	
	TOTAL OVERHEAD	**$648,406**

DIRECT COSTS Billed at Actual Cost

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
				$0.00
				$0.00
				$0.00
				$0.00
				$0.00
				$0.00
				$0.00
				$0.00
				$0.00
				$0.00
				$0.00
				$0.00
				$0.00
			TOTAL DIRECT COSTS	**$0**

FEE (PROFIT) **10%**

TOTAL FEES **$117,595**

COST: **$1,293,547**

Agreement No. 11-31-110-16

AMENDMENT NO. 16
TO
AGREEMENT WITH PARSONS TRANSPORTATION GROUP, INC.
FOR
PREPARATION OF PLANS, SPECIFICATIONS AND COST ESTIMATE (PS&E)
FOR THE CONSTRUCTION OF THE
STATE ROUTE 91/STATE ROUTE 71 INTERCHANGE IMPROVEMENTS PROJECT

1. PARTIES AND DATE

This Amendment No. 16 to the Agreement for Preparation of Plans, Specifications and Cost Estimate (PS&E) is made and entered into as of this _____ day of _____, 2020, by and between the RIVERSIDE COUNTY TRANSPORTATION COMMISSION ("Commission") and PARSONS TRANSPORTATION GROUP, INC. ("Consultant").

2. RECITALS

2.1 The Commission and the Consultant have entered into an agreement dated March 14, 2012 for the purpose of preparing Plans, Specifications and Cost Estimate (PS&E) for the construction of the State Route 91/State Route 71 Interchange Improvements Project (the "Master Agreement").

2.2 The Commission and the Consultant have entered into a letter agreement dated September 20, 2012, for the purpose of amending certain hourly rates and classifications while maintaining the maximum compensation provided under the Master Agreement ("Amendment No. 1 to the Master Agreement").

2.3 The Commission and the Consultant have entered into an Amendment No. 2 to the Master Agreement, dated March 19, 2013, for the purpose of including additional compensation under the Master Agreement.

2.4 The Commission and the Consultant have entered into letter agreements dated December 19, 2013 and August 13, 2014, for the purpose of addressing items not listed in scope of service and to

transfer budget within the Master Agreement. The letter agreements are on file at the offices of the Commission.

2.5 The Commission and the Consultant have entered into an Amendment No. 3 to the Master Agreement, dated December 5, 2014, for the purpose of extending the term of the Master Agreement for the continued preparation of PS&E for the State Route 91/State Route 71 Interchange Improvements Project.

2.6 The Commission and the Consultant have entered into an Amendment No. 4 to the Master Agreement, dated December 28, 2015, for the purpose of extending the term of the Master Agreement for the continued preparation of PS&E for the State Route 91/State Route 71 Interchange Improvements Project.

2.7 The Commission and the Consultant have entered into an Amendment No. 5 to the Master Agreement, dated September 1, 2016, for the purpose of extending the term of the Master agreement for continued preparation of PS&E for the State Route 91/State Route 71 Interchange Improvements Project.

2.8 The Commission and the Consultant have entered into an Amendment No. 6 to the Master Agreement, dated January 1, 2018, for the purpose of extending the term of the Master Agreement and to update the indemnification provision pursuant to SB 496.

2.9 The Commission and the Consultant have entered into an Amendment No. 7 to the Master Agreement, dated May 14, 2018, for the purpose of including additional services and compensation for the continued preparation of PS&E for the State Route 91/State Route 71 Interchange Improvements Projects as well as incorporating certain standard California Department of Transportation ("Caltrans") required contract provisions into the Master Agreement.

2.10 The Commission and the Consultant have entered into a letter agreement, dated May 7, 2018, for the purpose of transferring budget within the Master Agreement. The letter agreement is on file at the offices of the Commission ("Amendment No. 8 to the Master Agreement").

2.11 The Commission and the Consultant have entered into an Amendment No. 9 to the Master Agreement, dated May 14, 2019, for the purpose of including additional services and compensation for the continued

preparation of PS&E for the State Route 91/State Route 71 Interchange Improvements Projects.

2.12 The Commission and the Consultant have entered into a letter agreement dated July 30, 2019, for the purpose of implementing personnel changes. The letter agreement is on file at the offices of the Commission ("Amendment No. 10 to the Master Agreement").

2.13 The Commission and the Consultant have entered into a letter agreement dated December 19, 2019 for the purpose of transferring budget within the Master Agreement. The letter agreement is on file at the offices of the Commission ("Amendment No. 11 to the Master Agreement").

2.14 The Commission and the Consultant have entered into a letter agreement dated June 26, 2020, for the purpose of transferring budget within the Master Agreement. The letter agreement is on file at the offices of the Commission ("Amendment No. 12 to the Master Agreement").

2.15 The Commission and the Consultant have entered into a letter agreement, dated July 23, 2020, for the purpose of amending the rates of compensation set forth in Exhibit "C" of the Master Agreement, as previously amended. The letter agreement is on file at the offices of the Commission ("Amendment No. 13 to the Master Agreement").

2.16 The Commission and the Consultant have entered into a letter agreement, dated October 26, 2020, for the purpose of including additional services and compensation for the continued preparation of PS&E for the State Route 91/State Route 71 Interchange Improvements Projects. The letter agreement is on file at the offices of the Commission ("Amendment No. 14 to the Master Agreement").

2.17 The Commission and the Consultant have entered into an Amendment No. 15 to the Master Agreement, dated November 30, 2020, for the purpose of extending the term of the Master Agreement.

2.18 The parties now desire to amend the Master Agreement for the purpose of including additional services and compensation for the continued preparation of PS&E for the State Route 91/State Route 71 Interchange Improvements Projects ("Amendment No. 16 to the Master Agreement").

3. TERMS

3.1 The term of the Master Agreement shall be extended through December 31, 2024, unless earlier terminated as provided in the Master Agreement.

3.2 Except as amended by this Amendment No. 16, all provisions of the Master Agreement, as previously amended by Amendments 1 through 15, including without limitation the indemnity and insurance provisions, shall remain in full force and effect and shall govern the actions of the parties under this Amendment No. 16.

3.3 This Amendment No. 16 shall be governed by the laws of the State of California. Venue shall be in Riverside County.

3.4 This Amendment No. 16 may be signed in counterparts, each of which shall constitute an original.

3.5 A manually signed copy of this Amendment No. 16 which is transmitted by facsimile, email or other means of electronic transmission shall be deemed to have the same legal effect as delivery of an original executed copy of this Amendment No. 16 for all purposes. This Amendment No. 16 may be signed using an electronic signature.

[Signatures on following page]

SIGNATURE PAGE TO

AMENDMENT NO. 16 TO
AGREEMENT WITH PARSONS TRANSPORTATION GROUP, INC.
FOR
PREPARATIONS OF PLANS, SPECIFICATIONS AND COST ESTIMATE (PS&E)
FOR THE CONSTRUCTION OF THE
STATE ROUTE 91/STATE ROUTE 71 INTERCHANGE IMPROVEMENTS PROJECT

IN WITNESS WHEREOF, the parties hereto have executed this Amendment on the date first herein above written.

RIVERSIDE COUNTY TRANSPORTATION COMMISSION

By: _____
Anne Mayer, Executive Director

PARSONS TRANSPORTATION GROUP, INC.

By: _____
Chris A. Johnson,
Vice President/
Regional Manager

APPROVED AS TO FORM:

By: _____
Best Best & Krieger LLP
Counsel to the Riverside County
Transportation Commission

AGENDA ITEM 8

RIVERSIDE COUNTY TRANSPORTATION COMMISSION	
DATE:	February 22, 2021
TO:	Western Riverside County Programs and Projects Committee
FROM:	David Lewis, Capital Projects Manager
THROUGH:	Marlin Feenstra, Project Delivery Director
SUBJECT:	Agreement with Stantec Consulting Services, Inc., for Preparation of the Final Environmental Document, Preliminary Engineering, Plans, Specifications and Estimates, and Construction Support Services Related to the Santa Ana River Trail Project Phases 2, 2A and 3A in the Prado Basin

STAFF RECOMMENDATION:

This item is for the Committee to:

1) Award Agreement No. 21-67-038-00 to Stantec Consulting Services, Inc. (Stantec) to prepare a final California Environmental Quality Act (CEQA) document; perform preliminary engineering services; prepare plans, specifications, and estimates (PS&E); and provide construction design support services for the construction of Phases 2, 2A and 3A in the Prado Basin of the Santa Ana River Trail (SART 1) project (Project) in the amount of $714,039, plus a contingency amount of $107,105 for potential changes in scope, for a total amount not to exceed $821,144;
2) Authorize the Executive Director or designee to approve contingency work as may be required for the Project;
3) Authorize the Chair or Executive Director, pursuant to legal counsel review, to finalize and execute the agreement on behalf of the Commission; and
4) Forward to the Commision for final action.

BACKGROUND INFORMATION:

The concept for the overall Santa Ana River Trail from the San Bernardino Mountains to the Pacific Ocean in Huntington Beach has been in development for many years. Much of the trail has been built through Orange County with short segments remaining to be completed in Riverside and San Bernardino Counties. The last remaining segment to be completed in Riverside County is the segment from the Orange County line to the Hidden Valley Reserve in the cities of Corona and Riverside.

In 2007, the Riverside County Regional Park and Open-Space District (Park District) was successful in obtaining Proposition 84 Grant funds for the detailed alignment and construction of the section

of trail from the Orange County line to the United States Army Corps of Engineers' (USACE) property in the Prado Dam basin.

In early 2015, the Park District requested the Commission to manage the delivery of the Project between State Route 71 and the city of Eastvale. In March 2015, the Commission and Park District entered into Memorandum of Understanding (MOU) No. 15-67-059-00, which reimburses the Commission's costs for providing project management services to complete the design phase and procurement of construction services for the Park District's Project.

Project Description

The proposed trail consists of a 10 feet-wide paved Class I bike path as well as a 10 feet-wide decomposed granite equestrian and pedestrian trail for a total combined width of 20 feet.

From 2015 to 2019, staff worked with Park District's design consultant to complete the design of SART 1 and managed the consultant developing the environmental document for the Project (Figure 1). In October 2019, the USACE provided extensive and significant comments on the SART 1 trail alignments. USACE noted that portions of the trail (Phases 1 and 2B) impacted recently designated protected USACE mitigation land, and therefore the proposed alignment would not be acceptable. Additionally, environmental studies determined that these two phases would have significant impacts to waters of the United States, which would trigger extensive mitigation requirements and a detailed alternatives analysis. Lastly, the USACE also rejected the placement of the trail on top of the existing dikes due to changes in USACE policy.

These comments resulted in the need to revise the proposed trail alignments to avoid impacts to the USACE mitigation land, relocate the trail off the USACE dikes, and identify ways to incorporate the trail into planned USACE projects in the Prado Basin. This resulted in the revision of the project phasing and placement of the trail on haul roads constructed for the USACE construction projects. The revised SART 1 trail alignment phasing is briefly described below and shown in Figure 2.

During this time period, the USACE commenced construction of its Alcoa Dike project, which impacted the SART 1 Phase 2A and 4 alignments. The team was able to work with the USACE to incorporate the SART 1 Phase 4 trail section into its project, which is scheduled to begin construction in 2021.

Phase 1: Formerly Phase 1 and 2B, this phase will now be located on city streets. This phase will be designed after the completion of the USACE construction projects in the Prado Basin, because those projects need to be incorporated into the USACE construction packages. Phase 1 will be a subject of a future Commission agenda item.

Phase 2: This phase will connect Phase 1 (formerly Phase 1 and 2B) from Corydon Street to Rincon Street in the city of Norco and to the Phase 4 section being built by USACE at the Alcoa Dike. The trail will run parallel to Rincon Street and be placed adjacent to the edge of the street pavement; this will require installation of a barrier to separate and protect the trail users from the vehicular traffic.

Phase 2A: This phase will connect Phase 4 at Alcoa Dike to the future staging area (Phase 10) at Auto Center Drive. The trail will use existing haul routes currently being utilized by USACE for the construction of the Alcoa Phase II dike and will connect to the ends of the already constructed SART trail at the sewer treatment plant.

Phase 3A: This phase connects the future staging area at Auto Center Drive to the trail near the spillway. The proposed alignment will be located adjacent to the existing USACE maintenance road at the base of the existing dike and cross over the dike and run at the base of the spillway. The trail will be located within an area that the USACE proposes to use as a borrow pit for the upcoming spillway project.

Phase 3: This route is pending an agreement between USACE and Park District/RCTC on how to best cross the spillway channel. This will be a subject of a future Commission agenda item as it will potentially require the design and construction of a bridge over the channel, which was not anticipated in the original SART 1 design.

DISCUSSION:

Procurement Process for Final Environmental Document, Preliminary Engineering and PS&E

The Commission has identified portions of SART 1 (Phases 2, 2A and 3A) that can be constructed as part of the USACE Emergency Spillway and Auxiliary Dike projects. These projects are currently in final design and are scheduled to be advertised for construction in 2021 and 2022. Currently, Stantec provides the design services for the SART 1 Phase 4 in conjunction with the Butterfield/Rincon Street plans that are part of the USACE Alcoa Dike Phase II project.

At various meetings between the Commission, USACE and the Park District, an opportunity exists to include the Phase 2, 2A and 3A trail onto the existing haul roads, adjacent to maintenance roads, and within areas being used by USACE in its Emergency Spillway and Auxiliary Dike projects. USACE, through its consultant, Stantec, is finalizing the environmental documents to clear the areas and agreed to include the description of the trail in its environmental document. USACE has agreed to develop the National Environmental Policy Act (NEPA) environmental document for SART 1 Phase 2, 2A, and 3A. This should expedite the environmental process due to USACE having all the existing studies and data from its projects in the Prado Basin. USACE plans to commence this work in early 2021, and this will require an expedited design of the trail.

The Commission proposes to procure the CEQA environmental and design services directly from Stantec on a sole source basis, based on its existing project experience with the USACE and its ability to expedite the design to meet the USACE project delivery schedules for inclusion of the trail into the USACE projects. Stantec is the designer for the USACE's Alcoa Dike project and is experienced in the USACE requirements, standards, review process, and has the existing electronic files and data to expedite the incorporation of the trail design into the USACE construction bid packages. Stantec would provide preliminary engineering services to identify the footprint for the trail, as well as prepare any necessary CEQA documentation to supplement the USACE NEPA environmental document.

In addition to Stantec's extensive USACE experience, it is uniquely positioned to quickly provide the design required as it is the designer of record for the Phase 4 portion of SART at the Alcoa Dike Phase II project and is deeply familiar with the proposal to prepare Phases 2, 2A and 3A into its design plans, as it provided some preliminary work on Phase 2A. Stantec has knowledge of the SART environmental and design requirements, standards, specifications, and it can obtain the necessary approval of the design from the USACE within the time allotted.

The Phase 2, 2A and 3A designs must be completed and incorporated into the Emergency Spillway and Auxiliary Dike projects design by June 2021 for review by the USACE. If the designs are not included by that date, then they will not be included in the construction package for the Emergency Spillway project. Stantec's position as the designer of record for Phase 4 at Alcoa Dike Phase II ensures that the design can be delivered within this tight schedule. Staff has also discussed the acceleration of the design approval process with USACE and the limitation of the number of submissions to ensure the design will meet USACE's construction advertisement schedule. This was a successful approach for Phase 4.

The Park District provided direction to the Commission to procure a sole-source contract with Stantec. Per Amendment No. 2 to the MOU between the Commission and the Park District that was executed in January 2018, the Commission is authorized to procure and manage all future consultant contracts related to completion of the SART in Riverside County.

Staff negotiated the scope of work (including the appropriate level of effort, labor categories/mix, etc.), cost, and schedule proposal received from Stantec for the Project services and established a fair and reasonable price. The proposed cost, including contingency, is $821,144.

Staff reviewed the proposed costs with the Park District, and it concurs with the recommendations included in this staff report.

Staff recommends award of Agreement No. 21-67-038-00 to Stantec to perform preliminary engineering, environmental services, PS&E, and construction support services for the Project, based on the final negotiated project scope and cost of $714,039, plus the contingency amount of $107,105, for a total amount not to exceed $821,144. Additionally, staff recommends authority for the Chair or Executive Director to execute the agreement on behalf of the

Commission, pursuant to legal counsel review, and for the Executive Director or designee to approve contingency work as may be required for the Project.

***FISCAL IMPACT*:**

Costs for Commission project management; preliminary engineering, environmental document, PS&E, and construction support services; and staff will be reimbursed by the Proposition 84 grant secured by the Park District through the State Coastal Conservancy on September 28, 2017. Amendment No. 2 to the Commission-Park District MOU provides for the reimbursement of the Commission's Project costs.

Financial Information							
In Fiscal Year Budget:		Yes N/A	Year:	FY 2020/21 FY 2021/22+	Amount:	$200,000 $621,144	
Source of Funds:	Proposition 84 Grant funds provided by the State Coastal Conservancy and secured by Park District				Budget Adjustment:		Yes N/A
GL/Project Accounting No.:	007201 81102 00000 0000 720 67 81101						
Fiscal Procedures Approved:	Theresia Trevino				Date:	02/05/2021	

Attachments:

1) SART Figure 1
2) SART Figure 2
3) Stantec Consulting, Inc. Scope and Fee

Figure 1: SART 1 – Original Trail Alignment 2015 to 2019

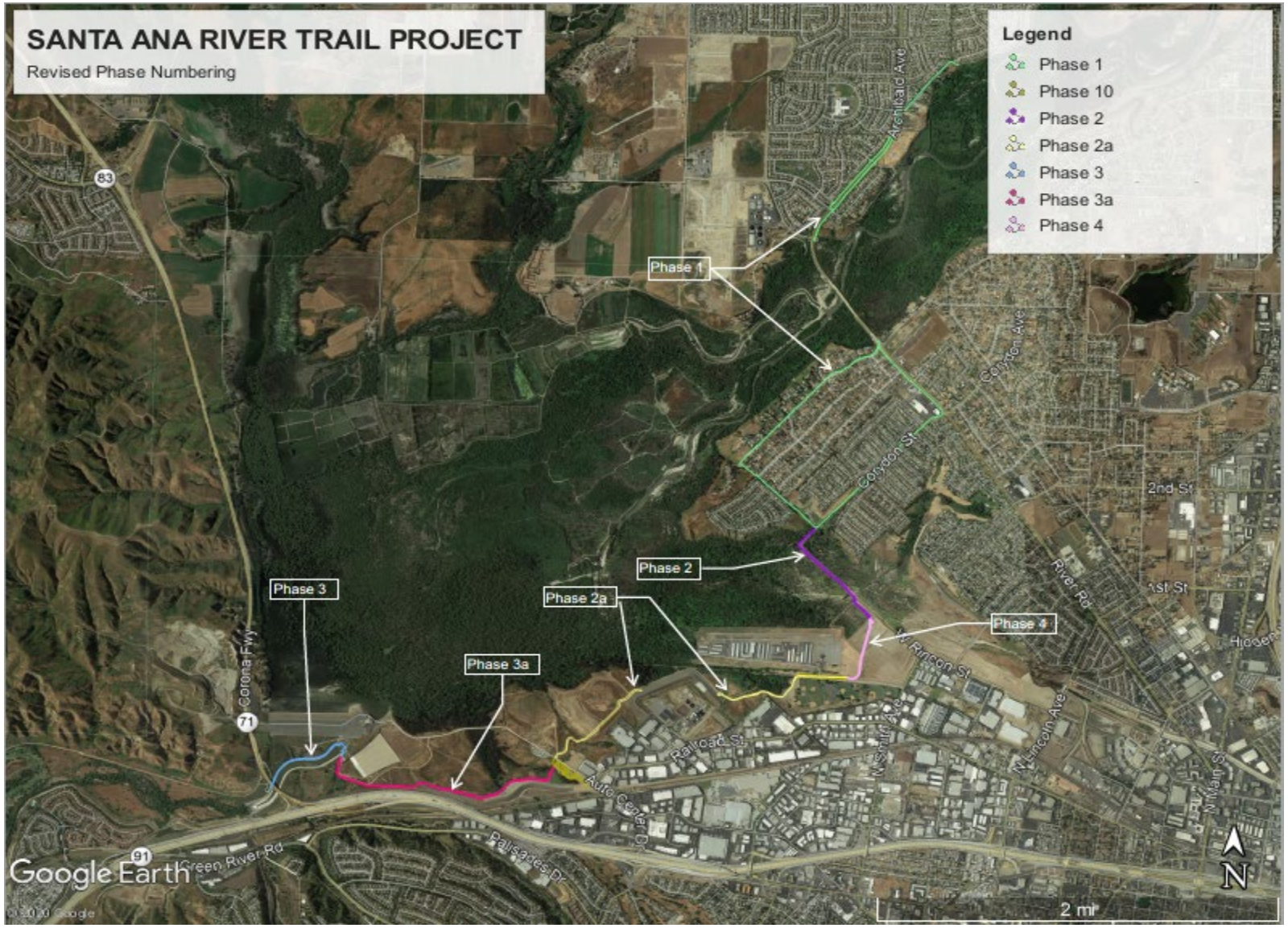


Figure 2: SART 1 – Revised Trail Alignments and Revised Phasing

Stantec Consulting Services Inc.
38 Technology Drive, Irvine CA 92618-5312

February 3, 2021
File: 2042483120

Attention: David Lewis
Capital Projects Manager
Riverside County Transportation Commission
4080 Lemon Street, 3rd Floor
Riverside, CA 92502

Reference: Proposal for Professional Engineering and CEQA Services
Santa Ana River Trail (SART) Phases 2, 2A and 3A

Dear David:

Thank you for the opportunity to provide this professional engineering design CEQA compliance services proposal for Phases 2, 2A and 3A of the Santa Ana River Trail (SART). Attached for your review is our Project Understanding, proposed Scope of Services and Fee Summary. Please feel free to respond with any questions or comments regarding the information attached hereto.

Regards,
STANTEC CONSULTING SERVICES INC.

Kevin Brandt, PE
Senior Associate
Phone: (949) 378-9516
kevin.brandt@stantec.com

Attachments: Exhibit A – Project Understanding
Exhibit B – Scope of Services
Exhibit C – Fee Estimate
Exhibit D – Exhibit 10-H1
Exhibit E – Project Schedule
Exhibit F – Ninyo & Moore Proposals dated 01/12/21

c. Matt Wagstaff, Stantec

Reference: Proposal for Professional Engineering and CEQA Services
Santa Ana River Trail (SART) Phases 2, 2A and 3A

EXHIBIT A

Project Understanding

The Riverside Regional Park and Open Space District is continuing their expansion of the existing Santa Ana River Trail (SART) network with the design and proposed construction of about 3.1 miles of trail referred to as Phases 2, 2A and 3A. Phase 2 will begin near Rincon Road and Temescal Wash picking up at the end of proposed Phase 4 trail improvements. Phase 2 will head northwesterly along Rincon Street and terminate at Stagecoach Road. Beginning at the recently designed Phase 4 trail near Smith Road and Butterfield Drive in the City of Corona, Phases 2A and 3A will proceed westerly and terminate below the Prado Dam spillway for a total trail length of about 2.4 miles.

Phase 2 will include a dip crossing at Temescal Wash with most of the trail running roadway adjacent along Rincon Street and Corydon Street.

Phase 2A will pick up where the recently designed Phase 4 terminates along Butterfield Drive just east of the Corona Municipal Airport. Phase 2A will run parallel to Butterfield Drive heading westerly, with at grade crossings at Aviation and Butterfield Drives. The trail will continue westerly along existing Alcoa Dike haul roads and a USACE dike surrounding the City of Corona's wastewater treatment plant. The trail will then traverse across the southerly side of Alcoa Dike borrow site, serpentine around existing soft rolling topography and then terminate at Auto Center Drive. The borrow site is anticipated to be disturbed because of proposed Alcoa Dike Phase 2 improvements and will require grading to establish a trail bench. Two existing natural drainages will be crossed, and to avoid environmental impacts bridges are proposed to span drainages. A drainage study will be performed to determine anticipated flow rates and erosion potential with supplemental information provided by USACE.

Phase 3 A will commence at Auto Center Drive and head westerly and terminate below the Prado Dam spillway. Phase 3A will run along the toe of a USACE dike, traverse over the dike and then follow existing dirt access roads. The Phase 3A segment ends adjacent to the easterly side of the Prado Dam outlet channel. A study and preliminary design will be prepared for the future Phase 3B bridge below the existing Prado Dam spillway.

Trail designs will be based on criteria included in Chapter 1000 Bicycle Transportation Design – Caltrans – 12/30/2015, Trail Development Standards – Riverside County Regional Park and Open-Space District – 07/2009, and Comprehensive Trails Plan – Riverside County Regional Park and Open-Space District – 08/2017. Phase 3A construction will be included with the USACE Prado Dam Spillway Project and Phases 2 and 3A will be constructed by RCTC. Phases 2, 2A and 3A designs will be coordinated with and reviewed by the USACE. Other entities with jurisdictional review include City of Corona and County of Riverside.

Based upon Stantec's experience with similar projects and our review of the California Environmental Quality Act (CEQA) Guidelines (2020) the proposed Project does not appear to qualify for a Categorical or a Statutory Exemption and therefore, we believe the proposed

Reference: Proposal for Professional Engineering and CEQA Services
Santa Ana River Trail (SART) Phases 2, 2A and 3A

project will require preparation of an Initial Study (IS)/Mitigated Negative Declaration (MND) to cover activities proposed for Phase 2, 2A, and 3A. Further, that the United States Army Corps of Engineers (USACE) will prepare a joint CEQA/National Environmental Policy Act (NEPA) document. The CEQA Lead Agency will be Riverside County Regional Park and Open-Space District (Parks). Additionally, Riverside County Transportation Commission (RCTC) will be responsible for providing information in support of the CEQA analysis to USACE on behalf of Parks. Moreover, the CEQA analysis provided by RCTC via its consultant (Stantec) will augment, where necessary (for the purposes of CEQA), the analysis prepared for the EA.

A summary of engineering and environmental services to be provided include the following:

1. **Survey and Mapping** – Survey will consist of field crews collecting data to support the design. Monument and benchmark locations may be recorded to confirm vertical and horizontal datums / basis of bearings. The USACE has supplied an overall topo that will be used for the existing condition base with the field survey supplementing / verifying the topo. A mapping base will be calculated based upon available boundary and easement data and items listed in a current and open title report covering the project area (title report provided by client).

2. **Existing Utilities** – An existing utility base will be created to depict locations and potential conflicts. An existing SoCalGas line located within the Phase3A project is to be relocated and coordination efforts are required to ensure the trail design and gas line relocation do not conflict.

3. **Right-of-Way / License Agreements** – Support may be required for right-of-way acquisition and/or license agreements. Initial efforts will include defining areas and supporting exhibit preparation with legal descriptions provided per separate contract.

4. **Geotechnical Investigation** – Stantec subconsultant Ninyo & Moore will provide geotechnical services including field investigation and report development. USACE Geotech reports will be used to the extent practical with supplemental investigations deemed necessary including borings at proposed bridge abutment locations and pits/borings along the proposed trail alignments.

5. **Drainage Studies** – Drainage analyses will be conducted to develop existing and proposed drainage conditions. Results will be compiled in a Drainage Report and used to develop drainage design features required for the trail improvements. Studies will also determine design flow rates and anticipated scour at the proposed dip crossing through Temescal Wah for Phase 2 and proposed bridge locations for Phase 2A.

6. **Trail Design** – Trail alignments and profiles will be developed and refined during the design process. Construction documents will be prepared including final plans, specifications, and estimates.

Reference: Proposal for Professional Engineering and CEQA Services
Santa Ana River Trail (SART) Phases 2, 2A and 3A

7. **Bridge Type Selection Memo** – Two bridges are proposed for the Phase 2A segment. The bridges will be premanufactured type, capable of supporting a "light" maintenance vehicle, with a study conducted to determine final bridge type and cost. Abutments will be designed utilizing information developed from the selected bridge manufacturer and soil parameters form the geotechnical investigation.

8. **Water Quality Management Plan (WQMP)** – A WQMP will be prepared as required by Santa Ana Regional Water Quality Control Board Order No. R8-2010-0033. The WQMP will summarize treatment control BMPs and potentially hydromodification BMPs required for the project.

9. **Storm Water Pollution Prevention Plan (SWPPP)** – A SWPPP will be prepared as required by State Water Resources Control Board General Permit Order No. 2009-009-DWQ.

10. **CEQA Support** – CEQA support services will include preparation of supplemental CEQA analysis for incorporation into the joint CEQA/NEPA document.

11. **Western Riverside County Regional Conservation Authority (RCA) Multi-Species Habitat Conservation Plan (MSHCP) and Determination of Biologically Equivalent or Superior Preservation (DBESP) Report** – A Habitat Assessment/MSHCP Consistency Analysis report will be prepared based upon the literature review and field studies conducted for the proposed Project.

12. **Regulatory Permit Applications** – 401, 404 and1602 permit applications will be prepared for Phases 2, 2A and 3A, and supporting documents generated including a Jurisdictional Delineation / Wetland Determination Report and Biological Resources Technical Report.

13. **Construction Support Services** – Construction support services to include submittal reviews, responses to RFIs, site visits, meetings, review of as-built improvements and preparation of record drawings. Bid support services will also be provided including responses to RFIs and review of bid results.

14. **Phase 3B Bridge Study** – A study will be performed in support of developing a preliminary design for a trail bridge to span the outlet channel below the Prado Dam spillway.

Reference: Proposal for Professional Engineering and CEQA Services
Santa Ana River Trail (SART) Phases 2, 2A and 3A

EXHIBIT B

Scope of Work – Phase 2

Task 1 – Project Management
Provide project management services including communications, schedule / budget tracking and attendance of meetings.

Task 2 –Survey and Mapping
Conduct field surveys as needed to supplement topo files provided by the USACE to confirm existing topographical features, cultural items, and other features necessary to establish complete and accurate project design topographical base map. Prepare a mapping base map of the project site that illustrates record mapping data (boundary and easements). Boundary and easement data will be calculated from record sources, and from those items listed in a current and open preliminary title report covering the subject property (tile reports provide by client).

Task 3 – Right-of-Way / License Agreements
Provide right-of-way and license agreement exhibit support services as requested by the client.

Task 4 – Geotechnical Investigation
Provide geotechnical services including a field investigation and geotechnical report (see attached proposal from Stantec subconsultant Ninyo & Moore dated 01/12/21).

Task 5 – Drainage Studies
Conduct drainage analyses including existing and proposed hydrology, hydraulics for drainage conveyance and dissipation. Determine existing and proposed tributary drainage areas, drainage patterns and concentrated flow paths. Confirm FEMA 100-yr and Prado Basin full pool water surface elevations. Conduct hydraulics study for bike trail crossing at Temescal Wash including scour calculations. Prepare a Drainage Report to document study results.

Task 6 – Trail Plans, Specifications and Estimates
Prepare trail construction documents including plans, specifications, and estimates. Plan sheets will be prepared at 1" = 50' scale and profiles at H: 1" = 50' and V: 1" =10'. Details sheets will include drainage, fencing, signing/striping, and miscellaneous details required to construct the improvements. Anticipated trail plan sheet index to include:

- Title Sheet (1)
- Sheet Index, Construction Notes, and Abbreviations (1)
- Typical Sections (1)
- Horizontal Control (2)
- Plan and Profile (4)
- Detail Sheets (3)
- Erosion Control Plans (2)

Reference: Proposal for Professional Engineering and CEQA Services
Santa Ana River Trail (SART) Phases 2, 2A and 3A

A maximum of three plan, specification and estimate packages will be submitted for review at the 70%, 100% and Final level.

Task 7 – Storm Water Pollution Prevention Plan (SWPPP)
Prepare a SWPPP in conformance with the State Water Resource Control Board (SWRCB) General Permit No. 2009-009-DWQ. The SWPPP will identify the BMPs required to allow discharge of storm water during construction.

Task 8 – Water Quality Management Plan (WQMP)
Prepare a WQMP for the project in conformance with the Santa Ana Regional Water Quality Control Board Order No. R8-2010-0033 and the local Agency standard format. The WQMP will identify the Best Management Practices (BMP), including source and treatment controls if applicable, required for the project site.

Task 9 – Construction Support Services
Construction support services to include submittal reviews, responses to RFIs, site visits, meeting attendance, review of as-built improvements as verified by Contractor's surveyor, and preparation of record drawings. Bid support services to include responses to RFIs during the bidding process.

Scope of Work – Phase 2A

Task 1 – Project Management
Provide project management services including communications, schedule / budget tracking and attendance of meetings.

Task 2 –Survey and Mapping
Conduct field surveys as needed to supplement topo files provided by the USACE to confirm existing topographical features, cultural items, and other features necessary to establish complete and accurate project design topographical base map. Prepare a mapping base map of the project site that illustrates record mapping data (boundary and easements). Boundary and easement data will be calculated from record sources, and from those items listed in a current and open preliminary title report covering the subject property (tile reports provide by client).

Task 3 – Right-of-Way / License Agreements
Provide right-of-way and license agreement exhibit support services as requested by the client.

Task 4 – Geotechnical Investigation
Provide geotechnical services including a field investigation and geotechnical report (see attached proposal from Stantec subconsultant Ninyo & Moore dated 01/12/21).

Task 5 – Drainage Studies
Conduct drainage analyses including existing and proposed hydrology, hydraulics for drainage conveyance and dissipation, and scour calcs at proposed bridge crossings. Determine existing

and proposed tributary drainage areas, drainage patterns and concentrated flow paths. Determine water quality treatment flow rates and volumes to be used to design treatment control BMPs. Confirm FEMA 100-yr and Prado Basin full pool water surface elevations. Prepare a Drainage Report to document study results.

Task 6 – Trail Plans, Specifications and Estimates
Prepare trail construction documents including plans, specifications, and estimates. Plan sheets will be prepared at 1" = 50' scale and profiles at H: 1" = 50' and V: 1" =10'. Details sheets will include drainage, fencing, signing/striping, bridge abutments and miscellaneous details required to construct the improvements. Anticipated trail plan sheet index to include:

- Title Sheet (1)
- Sheet Index, Construction Notes, and Abbreviations (1)
- Typical Sections (1)
- Horizontal Control (2)
- Plan and Profile (7)
- Bridge Abutment Details (1)
- Bridge Details (by manufacturer)
- Detail Sheets (5)
- Erosion Control Plans (3)

A maximum of three plan, specification and estimate packages will be submitted for review at the 70%, 100% and Final level.

Task 7 – Bridge Type Selection Memo
Prepare a Bridge Selection Memo documenting the selection process for determining a premanufactured bridge suitable for the two proposed crossings. Determine abutment types, recommended manufacturer, bridge material and construction costs. Memo to include design criteria and schematics depicting bridge length, abutment locations and profile.

Task 8 – Storm Water Pollution Prevention Plan (SWPPP)
Prepare a SWPPP in conformance with the State Water Resource Control Board (SWRCB) General Permit No. 2009-009-DWQ. The SWPPP will identify the BMPs required to allow discharge of storm water during construction.

Task 9 – Water Quality Management Plan (WQMP)
Prepare a WQMP for the project in conformance with the Santa Ana Regional Water Quality Control Board Order No. R8-2010-0033 and the local Agency standard format. The WQMP will identify the Best Management Practices (BMP), including source and treatment controls if applicable, required for the project site.

Task 10 – Construction Support Services
Construction support services to include submittal reviews, responses to RFIs, site visits, meeting attendance, review of as-built improvements as verified by Contractor's surveyor, and

preparation of record drawings. Bid support services to include responses to RFIs during the bidding process.

Scope of Work – Phase 3A

Task 1 – Project Management
Provide project management services including communications, schedule / budget tracking and attendance of meetings.

Task 2 –Survey and Mapping
Conduct field surveys as needed to supplement topo files provided by the USACE to confirm existing topographical features, cultural items, and other features necessary to establish complete and accurate project design topographical base map. Prepare a mapping base map of the project site that illustrates record mapping data (boundary and easements). Boundary and easement data will be calculated from record sources, and from those items listed in a current and open preliminary title report covering the subject property (tile reports provide by client).

Task 3 – Right-of-Way / License Agreements
Provide right-of-way and license agreement exhibit support services as requested by the client.

Task 4 – Geotechnical Investigation
Provide geotechnical services including a field investigation and geotechnical report (see attached proposal from Stantec subconsultant Ninyo & Moore dated 01/12/21.

Task 5 – Drainage Studies
Conduct drainage analyses including existing and proposed hydrology, hydraulics for drainage conveyance and dissipation. Determine existing and proposed tributary drainage areas, drainage patterns and concentrated flow paths. Confirm FEMA 100-yr and Prado Basin full pool water surface elevations. Prepare a Drainage Report to document study results.

Task 6 – Trail Plans, Specifications and Estimates
Prepare trail construction documents including plans, specifications and estimates. Plan sheets will be prepared at 1" = 50' scale and profiles at H: 1" = 50' and V: 1" =10'. Details sheets will include drainage, fencing, signing/striping, and miscellaneous details required to construct the improvements. Anticipated trail plan sheet index to include:

- Title Sheet (1)
- Sheet Index, Construction Notes, and Abbreviations (1)
- Typical Sections (1)
- Horizontal Control (2)
- Plan and Profile (7)
- Detail Sheets (3)
- Erosion Control Plans (3)

Reference: Proposal for Professional Engineering and CEQA Services
Santa Ana River Trail (SART) Phases 2, 2A and 3A

A maximum of three plan, specification and estimate packages will be submitted for review at the 70%, 100% and Final level.

Task 7 – Storm Water Pollution Prevention Plan (SWPPP)
Prepare a SWPPP in conformance with the State Water Resource Control Board (SWRCB) General Permit No. 2009-009-DWQ. The SWPPP will identify the BMPs required to allow discharge of storm water during construction.

Task 8 – Water Quality Management Plan (WQMP)
Prepare a WQMP for the project in conformance with the Santa Ana Regional Water Quality Control Board Order No. R8-2010-0033 and the local Agency standard format. The WQMP will identify the Best Management Practices (BMP), including source and treatment controls if applicable, required for the project site.

Task 9 – Phase 3B Bridge Study
Conduct a study and develop a preliminary alignment and profile design for a trail bridge to span the outlet channel below the Prado Dam spillway and connect trail Phases 3A and 3B. Develop two alternatives for bridge placement and recommend final proposed bridge location. Prepare a bridge study report including a summary of the criteria used to develop final location, potential bridge types, abutment requirements, cost estimate and one plan and one profile exhibit.

Task 10 – Construction Support Services
Construction support services to include submittal reviews, responses to RFIs, site visits, meeting attendance, review of as-built improvements as verified by Contractor's surveyor, and preparation of record drawings. Bid support services to include responses to RFIs during the bidding process.

Scope of Work – Phases 2, 2A and 3A CEQA Compliance

Task 1: Coordination with USACE on Joint EA/FONSE/IS/MND Outline, Content, and Analysis
Because the USACE will be preparing a joint document and relying on Parks and RCTC for the CEQA portion of the analysis and associated mitigation measures (if any), it is important that a joint discussion be held to clarify the outline of the document, its content and topical areas, and the analysis required to address the CEQA component. We recommend this be accomplished via a joint workshop (virtual WebEx meetings) to address these issues and to reduce duplication of analysis and document delays. We recommend Parks, in conjunction with RCTC, take the lead on this effort with support from Stantec. It is anticipated one meeting would suffice to accomplish this task with follow up and confirmation of action items addressed via email.

Deliverable: Coordination meeting with Parks, RCTC, and USACE

Task 2: Prepare Supplemental and/or Required CEQA Analysis for Joint EA/FONSI/IS/MND
NEPA and CEQA have distinct preparation and analysis requirements. Given this, there will be portions of the NEPA EA/FONSI that do not meet the requirements of CEQA. Utilizing information

derived from Task 1, Stantec will work with the USACE, Parks, and RCTC to determine where CEQA-related analysis and methodologies are required and provide these in a format for easy incorporation into the joint document. As part of this task, Stantec will identify feasible mitigation measures if needed, to reduce potentially significant environmental impacts to less than significant.

Deliverable: Preparation of supplemental CEQA analysis for incorporation into joint CEQA/NEPA document

Task 3: Coordination with USACE, Parks, and RCTC on Circulation of the Notice of Intent to Adopt a Mitigated Negative Declaration

After review and approval of the joint document by USACE, Parks, and RCTC, Stantec will coordinate with both USACE and Parks to prepare and circulate the Notice of Intent (NOI) to Adopt an MND to responsible agencies, trustee agencies, other interested parties and the County Clerk, as mandated by CEQA. The NOI will start the 30-day review period for the CEQA portion of the joint document. A certified mailing list of neighboring owners/occupants based upon an agreed radius (generally 500-feet from the Project site) will be prepared by Stantec. Stantec will prepare the agency mailing list for Parks and RCTC review and approval, coordinate direct mailings (assumed to be limited to agencies and via FedEx or other traceable mailing means), and circulate the NOI and/or joint document to the appropriate parties. Stantec will be responsible for preparing the advertisement text for the local paper and for publishing the notices. Stantec will provide an electronic/reproducible copy of the joint document and NOI, including all technical studies (if applicable), to Parks and RCTC. It is assumed Parks will post the NOI and associated documents on its website. We also understand USACE will post the EA/IS on its website too.

Stantec understands the USACE will circulate the EA/IS under their cover letter. To ensure compliance with CEQA, the cover letter will need to include required information and/or text. Stantec, RCTC, and Parks in conjunction with USACE will jointly prepare the cover letter to ensure it is CEQA and NEPA compliant for the EA/IS.

Deliverable: Coordination with Parks, RCTC, and USACE on circulation of EA/IS and Notice of Intent to Adopt a Mitigated Negative Declaration

Task 4: Response to Comments on the Initial Study, Prepare Mitigation Monitoring & Reporting Program, and File Notice of Determination

Upon completion of the public review period, Stantec will respond to comments on the CEQA portion of the joint document. Public reaction to the EA/IS cannot be predicted with accuracy and could range from a small number of generally positive comments to a substantial number of strongly negative and technically sophisticated comments. For purposes of this proposal, it is assumed that comments on the Draft EA/IS will be moderate. Further, the USACE will be responsible for comments on the EA portion of the document and Stantec will provide support on behalf of Parks and RCTC for this effort. As part of this task, Stantec will respond to each comment individually, including each comment and response in the Final EA/IS, as noted above. In addition, as part of this task, Stantec will prepare a Mitigation Monitoring and

Reference: Proposal for Professional Engineering and CEQA Services
Santa Ana River Trail (SART) Phases 2, 2A and 3A

Reporting Program (MMRP) for the Project, which is also required by CEQA. It is assumed that USACE (in coordination with Stantec) will compile the Final joint document, and two rounds of review and comment with Parks and RCTC are assumed. When the Final EA/IS/ is approved by Parks and RCTC, Stantec will notify interested parties and those who commented that the Final EA/IS has provided responses to their comments on the IS and that a Notice of Determination (NOD) (for the purposes of CEQA) has been prepared. Stantec will further coordinate with Parks and RCTC regarding the filing of the NOD with the County Clerk and State Clearinghouse, within five (5) days of Project approval, after which a 30-day statute of limitations for CEQA challenges to the Project begins. Stantec will pay the California Department of Fish and Wildlife (CDFW) and County Clerk filing fees at the time of filing the NOD. Stantec assumes the USACE will provide an electronic/reproducible copy of the Final EA/IS for uploading to the Parks website.

Deliverable: Response to Comments on the joint CEQA/NEPA document, Prepare Mitigation Monitoring & Reporting Program, and File Notice of Determination

PERMIT COMPLIANCE & TECHNICAL REPORTS

Task 5: Preparation of Jurisdictional Delineation (JD)/Wetlands Determination (WD)
To support the proposed Project, qualified Stantec wetland specialists will conduct a formal JD/WDR within the Project study/survey area. After more precise Project boundaries are defined during Project Description/Data Collection, Stantec will conduct a jurisdictional delineation of "waters of the US," including wetlands, waters of the State, and California Department of Fish and Wildlife (CDFW) jurisdictional waters within 100 feet of the Project area (where accessible). The jurisdictional limits of the waters of the US within the Project area will be delineated following the methodology of the US Army Corps of Engineers (USACE) 1987 Wetland Delineation Manual and the Interim Regional Supplement to the USACE Wetland Delineation Manual: Arid West Region (2006). Identified jurisdictional boundaries will be delineated and mapped, with acreages quantified using a GPS-enabled mapping tablet capable of sub-meter positional accuracy.

Prior to conducting the field assessment, Stantec will review current and historic aerial photographs, topographic maps, available soils information, and local and State hydric soil list information to evaluate potential jurisdictional features within the Project area. Many potentially jurisdictional features are often misidentified when reviewing aerial photography alone. As such, each feature will be verified in the field.

To verify information described above, Stantec will conduct a field reconnaissance survey with experienced wetland specialists, which will include a field investigation into the current status of jurisdictional waters/wetland habitats within the Project area. Based on the data collected on the Project area, the total area of State and federal jurisdictional features will be calculated. Upon completion of fieldwork, Stantec will prepare a formal JD/WDR in a format acceptable to support compliance with USACE, Regional Water Quality Control Board (RWQCB) – Santa Ana, and CDFW requirements under the Federal Clean Water Act and CDFW requirements under the Federal Clean Water Act and CDFW Code (including adherence to the Mapping Episodic Stream Activity [MESA] guidelines where applicable). The report will include maps, figures, photo

documentation, and field data sheets. All shapefiles created as part of the Project will be provided to Parks/RCTC/USACE with the final report. Stantec will respond to one set of comments and issue final reports within two weeks of receiving comments from the Parks/RCTC/USACE on the draft report package.

Deliverable: Draft and Final Delineation Report

Task 6: Prepare Biological Resources Technical Report (BRTR):
It is assumed that as part of the USACE EA preparation, a biological assessment will be prepared by staff biologists and the results provided to Parks/RCTC/Stantec. Because the USACE focus is primarily on federally protected species, it will be necessary for the purposes of CEQA to identify non-federal species as well. Stantec biologists will conduct focused (non-protocol level) surveys to provide a general biological resources inventory of the proposed Project study/survey area to determine the presence/absence of and the potential for occurrence of comment and special status plants or vegetation communities.

While the surveys will serve to document all plants and wildlife, they will generally focus on the detection of sensitive birds, mammals, reptiles, invertebrates, and amphibians that may occur on or near the Project site. To the extent possible surveys will conducted when special-status plant species would be in bloom or identifiable, migratory birds would be passing through and returning to the site, resident bird species would be nesting and fledging, small mammals would be active, and above-ground amphibian and reptile movement would be detectable. However, it is acknowledged that some wildlife species and/or individuals may be difficult to detect due to their elusive nature, cryptic morphology, or nocturnal behavior.

Observations of sensitive wildlife will be logged using a Trimble GPS or GIS tablet and mapped on aerial photography; Stantec biologists will also note the presence and distribution of invasive plants wildlife within areas surveyed. The following is a summary of methodologies that will be employed during the general biological surveys.

Literature Review: A literature search will be performed in conjunction with the field surveys for the project site. A search of the CDFW California Natural Diversity Database (CNDDB) will be conducted for the U.S. Geological Survey's (USGS) 7.5-minute topographic quadrangle in which the survey(s) occur along with the adjacent eight quadrangles. The purpose of the search is to determine the special-status plants, wildlife, and vegetation communities that have been documented within the vicinity of the project. Additional data regarding the potential occurrence of special-status species and policies relating to these special-status natural resources is generally gathered from the following sources:

- State listed endangered and threatened animals of California
- CDFW Special Animals List
- CDFW California Wildlife Habitat Relationships
- CNPS Inventory of Rare and Endangered Vascular Plants of California
- Consortium of California Herbaria
- Aerial photographs of the location to be surveyed and surrounding areas

Reference: Proposal for Professional Engineering and CEQA Services
Santa Ana River Trail (SART) Phases 2, 2A and 3A

Common and Sensitive Wildlife: Reconnaissance-level surveys will be performed by methodically walking meandering transects through the entirety of the project site at an average pace of approximately 1.5 km/hr. while visually searching for and listening to wildlife songs and calls and searching for animal signs (i.e., scat, footprints, fur, burrows, etc.). The walking surveys will be halted approximately every 50 meters to listen for wildlife or whenever necessary to identify, record, or enumerate any other detected species.

Terrestrial insects and other invertebrates are searched for on flowers and leaves, under loose bark and under stones and logs on the ground throughout the project site. Randomly selected areas within appropriate micro habitats (i.e., leaf litter, underneath felled logs, etc.) will be hand raked or visually inspected to determine the presence/absence of gastropods.

Surveys will be conducted during daylight hours when temperatures are such that reptiles would be active (i.e., between 75 – 95F). Visual observations will be made to locate basking reptiles, and potential refuge areas, such as debris piles (i.e., woody debris, trash, etc.), are searched. All refugia sites search are returned to their original state upon survey completion.

Vegetation Mapping: Vegetation descriptions and names are based on Sawyer et al. (2009) and will be defined at least to the alliance level. Vegetation maps are prepared by drawing tentative vegetation type boundaries onto high-resolution aerial images while in the field, then digitizing these polygons into GIS. Most boundaries shown on the resulting maps are accurate within approximately three feet; however, boundaries between some vegetation types are less precise due to difficulties interpreting aerial imagery and accessing stands of vegetation.

The Stantec Team utilizes the latest advances in technology to create highly accurate and descriptive vegetation maps. Utilizing a GPS enabled tablet, along with sub-meter GPS receivers, the Stantec Team can map vegetation communities while on-site and immediately upload the data to the cloud for processing back at the office. This valuable tool limits the need for a large amount of paper maps, thus reducing overall costs while being environmentally conscious. We assume one round of consolidated comments for the review.

Deliverable: Draft and Final BRTR

Task 7: Western Riverside County Regional Conservation Authority (RCA) Multi-Species Habitat Conservation Plan (MSHCP) and Determination of Biologically Equivalent or Superior Preservation (DBESP) Report

Utilizing information developed in Task 6 and by the USACE as part of their EA analysis related to biological resources, a Habitat Assessment/MSHCP Consistency Analysis report will be prepared based upon the literature review and field studies conducted for the proposed Project. The report will address the proposed project in relation to the MSHCP requirements, including applicable Criteria Cells and/or Cell Group, Cores and Linkages, and surveys required by the MSHCP compliance. The report will also include a Reserve Assembly Analysis. Further, the report will assess Section 6.1.2 resources, including riparian/riverine resources, vernal pools fairy shrimp, and riparian birds; Section 6.1.3 Narrow Endemic Plant Species; and, Section 6.3.2 Additional

Reference: Proposal for Professional Engineering and CEQA Services
Santa Ana River Trail (SART) Phases 2, 2A and 3A

Survey Needs and Procedures, such as special criteria area species and burrowing owl. It should be noted we understand trails to be a covered activity, per the MSHCP.

Upon finalization of the Habitat Assessment/MSHCP Consistency Analysis, the complete proposed Project application will be submitted to the RCA. The RCA and wildlife agencies have 30 calendar days to review the application. The RCA and wildlife agencies typically have comments on the application, which require revisions to the documents and extends the review period. If the RCA finds that the project is consistent with the MSHCP, Consistency Findings are submitted to the wildlife agencies for review. The wildlife agencies will then review the RCA's Consistency Findings and make a determination. Project proponents are always advised to expect the process to take anywhere between 6 to 9 months.

Stantec will prepare a DBESP Report in compliance with the requirements of the Western Riverside County MSHCP, which will describe in detail (i.e., map, qualify, and quantify) the resources present, the resources to be impacted by the proposed project (both direct and indirect), and the acres proposed to mitigate for the proposed impacts, and include a finding that the proposed project would be biologically equivalent or superior to the avoidance alternative.

The MSHCP requires that a DBESP include the following:

- A description of the project site;
- A written project description, demonstrating why an avoidance alternative is not possible;
- A written description of biological information available for the project site, including results of resource mapping;
- Quantification of unavoidable impacts, including direct and indirect effects, to riparian/riverine areas and vernal pools associated with the project;
- A written description of project design features and mitigation measures that reduce effects, such as edge treatments, landscaping, elevation difference, and minimization and/or compensation through restoration or enhancement; and,
- A finding demonstrating that although the proposed project would not avoid impacts, with proposed design and compensation measures, it would be biologically equivalent or superior to that which would occur under an avoidance alternative without these measures, based on one or more of the following factors:
    - Effects on conserved habitats
    - Effects on the species listed above under the heading "Purpose" in Section 6.1.2
    - Effects on riparian linkages and functions of the MSHCP Conservation Area.

Deliverable: Habitat Assessment/MSHCP Consistency Analysis and DBESP and Coordination with RCA on behalf of Parks and RCTC

Reference: Proposal for Professional Engineering and CEQA Services
Santa Ana River Trail (SART) Phases 2, 2A and 3A

Task 8: Prepare Sections 401, 404, and 1602 Permits
Lake and Streambed Alteration Agreement: Stantec will prepare a Lake and Streambed Alteration Notification for submittal to CDFW. The notification application will include the appropriate notification form with supporting information included as an attachment. If CDFW determines that the Project may substantially adversely affect existing fish or wildlife resources, a Lake or Streambed Alteration Agreement will be required for the Project. Stantec will provide an electronic version of the application to the Parks/RCTC for review and will address any comments. Once finalized, Stantec will submit the finalized application to Parks/RCTC for transmittal to CDFW. CDFW is also a CEQA responsible agency and will require documentation that the CEQA process has been completed before a Lake or Streambed Alteration Agreement is issued for the Project.

Section 401 Water Quality Certification: Stantec will prepare a Water Quality Certification application for the waters of the United States and State that would be affected by the proposed Project. A copy of the USACE pre-preconstruction notification would be included with the application. Stantec will provide an electronic version of the application to the Parks/RCTC for review and will address any comments. Once finalized, Stantec will submit the finalized application to Parks/RCTC for transmittal to the RWQCB – Santa Ana. The RWQCB as a responsible agency under CEQA, will require documentation that the CEQA process has been completed before a Water Quality Certification will be issued for the Project.

Section 404 of the Clean Water Act: Based on the nature of the proposed Project and the anticipated effects to Prado Dam, the proposed Project will likely qualify for coverage under Nationwide Permit #14 for Linear Transportation Projects. To obtain coverage under the Nationwide Permit, Stantec will prepare a pre-construction notification and provide details on the anticipated Project impacts (i.e., placement of fill) to waters of the United States, including wetlands. Stantec will provide an electronic version of the pre-construction notification to Parks/RCTC for review and will address any comments. Once finalized, Stantec will submit the pre-construction notification application to Parks for transmittal to the USACE.

Assumptions: Stantec assumes one (1) draft and (1) final version of each permit application package will be provided to Parks/RCTC before submission to regulatory agencies. Permit applications will be submitted with fees by Parks/RCTC staff. An incidental take permit for take of a state-listed species is not expected at this time.

Task 9: Tribal Cultural Resources
As now required by AB 52, The tribal cultural resources section of the CEQA environmental document will analyze direct and indirect impacts to tribal cultural resources because of the proposed Project. If requested, Stantec will request a list of Native Americans from the Native American Heritage Commission for AB 52 consultation or refer to consultation requests already submitted to Parks. Draft letters initiating or continuing AB 52 consultation on behalf of Parks will be drafted by Stantec for Parks. We assume that no tribal cultural resources are present in the Project Area.

Reference: Proposal for Professional Engineering and CEQA Services
Santa Ana River Trail (SART) Phases 2, 2A and 3A

Assumptions

- Title reports to be provided by the client as required.
- Extensive hydrology studies not required and area wide / regional flow rates, e.g. Temescal Wash and Phase 2A natural drainage courses are available from City of Corona and/or the USACE.
- Cost estimate unit prices will be based on available information for similar projects available at the time but may not necessarily reflect actual construction costs. Stantec makes no guarantee as to actual construction costs.
- Join details at begin of phase 3A at Prado Dam Basin Outlet will be limited to tying in with existing topography only – no coordination or design anticipated to match trail designs by others at join points.
- Construction documents, e.g. front-end docs, general conditions, etc., will be prepared by the USACE and RCTC.
- Plan processing will be via e-mail and/or overnight mail delivery only.
- USACE, City of Corona and Riverside County will be the agencies reviewing the proposed trail improvements.
- Topographic data supplied by the USACE along with supplemental field surveys will be adequate for final trail design.
- Bridges will be premanufactured with abutments designed by Stantec. Manufacturer to provide bridge reaction loads with calculations. Abutments to be spread footing foundation type – no piles and now wingwalls required.
- All agency processing fees will be paid for by the client.
- Stantec will not be involved with nor responsible for construction sequencing, scheduling and coordination of contractor and subcontractor work schedules. This will be the responsibility of the client or client-appointed consultant.
- Stantec will not be held responsible for construction issues, as they relate to plans prepared by our office if we are not timely informed during construction and included in the RFI process.
- Regulatory permit 401, 404 and 1602 applications assume one (1) permit to include Phases 2 and 2A including one (1) draft and (1) final version of the permit application package and will be provided to RCTC before submission to regulatory agencies. An incidental take permit for take of a state-listed species is not expected at this time.
- Since the actual number of acres affected by the proposed project is not known at this time, Parks may be required to apply for an Individual Permit through USACE, assuming Nationwide Permit #14 is not applicable. Provided this is the case, Stantec will prepare a separate scope of work and fee estimate.
- 401 and 1602 estimated permit application fees are based on information known during proposal effort and may be subject to change since the actual number of acres affected by the project is not known at this time.
- No plan check fees anticipated from reviewing agencies.

Exclusions

- Legal descriptions for right-of-way / license agreements

Reference: Proposal for Professional Engineering and CEQA Services
Santa Ana River Trail (SART) Phases 2, 2A and 3A

- Boundary surveys
- Irrigation and landscape design
- Retaining Wall Plans, Profiles, and Structural Calculations
- Traffic Control Plans

Reference: Proposal for Professional Engineering and CEQA Services
Santa Ana River Trail (SART) Phases 2, 2A and 3A

EXHIBIT C

Fee Estimate

Fee estimate summary (see attached fee estimates breakdown):

Description	Fee
SART Phase 2 Plans, Specifications and Estimates	$163,642.04
SART Phase 2A Plans, Specifications and Estimates	$213,054.72
SART Phase 3A Plans, Specifications and Estimates	$174,774.52
Phases 2, 2A and 3A CEQA Compliance	$162,567.46
Total	$714,038.74

The estimated budget is a maximum for the work proposed based on the direction and information provided by your office. Work performed will be billed monthly on a time-and-materials basis and is due and payable thirty (30) days from receipt of invoice. Retention shall not be withheld from payment. Work will not exceed the budget amount without prior Client authorization.

Direct costs, such as filing fees, will be paid by the Client. Reimbursable costs, such as printing, all reproduction, blueprinting, travel and lodging (as applicable), and photocopying will be billed at cost (plus 10-percent).

Should the Project be put on hold by the Client or Agency for a period of six (6) months or longer, Stantec will have the right to review the contract fee summary and make appropriate revisions based on annual adjustments to Stantec's specific division's fee schedule, changes to the scope of services, as well as startup cost incurred by Stantec.

This proposal and fee summary are valid for 90 days from the date of preparation. If a contract is not executed within this time frame, Stantec has the right to adjust the scope of services and/or fee summary based on changes in project direction, new information provided to our office, or an adjustment made to Stantec's specific division's fee schedule.

Reference: Proposal for Professional Engineering and CEQA Services
Santa Ana River Trail (SART) Phases 2, 2A and 3A

		Brandt								Wagstaff					
		Sr. PM	TM/SE	TM/SE	TM/SE	PE/CE/ Mapping Spec.	PE/CE/ Mapping Spec.	PE/CE/ Mapping Spec.	PE/CE/ Mapping Spec.	CE	2-Man	Direct Costs	Subconsultant Geotech	TOTAL TASK HOURS	TOTAL TASK FEE
		$237.95	$206.41	$198.21	$196.91	$172.96	$168.98	$168.15	$135.39	$132.65	$280				
Task No.	Task Description														
A. SART Phase 2															
1	**Project Management**														
	Project Management	40.0												40.0	$ 9,518.00
	Meetings (6 total - virtual)	6.0								6.0				12.0	$ 2,223.60
														0.0	$ -
														0.0	$ -
	Subtotal	**46.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**6.0**	**0.0**	**$ -**		**52.0**	**$ 11,741.60**
2	**Survey and Mapping**														
	Field Surveys (3 days total)					12.0				4.0	24.0			40.0	$ 9,326.12
	Mapping Base		8.0						24.0					32.0	$ 4,900.64
														0.0	$ -
														0.0	$ -
	Subtotal	**0.0**	**8.0**	**0.0**	**0.0**	**12.0**	**0.0**	**0.0**	**24.0**	**4.0**	**24.0**	**$ -**		**72.0**	**$ 14,226.76**
3	**Right-of-Way / License Agreements**														
	Right-of-Way / License Agreements	2.0	2.0						16.0					20.0	$ 3,054.96
														0.0	$ -
														0.0	$ -
														0.0	$ -
	Subtotal	**2.0**	**2.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**16.0**	**0.0**	**0.0**	**$ -**		**20.0**	**$ 3,054.96**
4	**Geotechnical Investigation**														
	Geotechnical Investigation	4.0								8.0			$ 15,083	12.0	$ 17,096.00
														0.0	$ -
														0.0	$ -
														0.0	$ -
	Subtotal	**4.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**8.0**	**0.0**	**$ -**		**12.0**	**$ 17,096.00**
5	**Drainage Studies**														
	Hydrology						8.0			24.0				32.0	$ 4,535.44
	Hydraulics	4.0	16.0	40.0						40.0				100.0	$ 17,488.76
	Water Quality Flow Rates and Volumes						8.0			24.0				32.0	$ 4,535.44
	Drainage Report	2.0					4.0			16.0				22.0	$ 3,274.22
														0.0	$ -
	Subtotal	**6.0**	**16.0**	**40.0**	**0.0**	**0.0**	**20.0**	**0.0**	**0.0**	**104.0**	**0.0**	**$ -**		**186.0**	**$ 29,833.86**
6	**Trail Plans, Specifications and Estimates**														
	Plans	24.0			60.0			20.0		200.0				304.0	$ 47,418.40
	Specifications	8.0								40.0				48.0	$ 7,209.60
	Estimates	4.0								16.0				20.0	$ 3,074.20
														0.0	$ -
	Subtotal	**36.0**	**0.0**	**0.0**	**60.0**	**0.0**	**0.0**	**20.0**	**0.0**	**256.0**	**0.0**	**$ -**		**372.0**	**$ 57,702.20**
7	**Storm Water Pollution Prevention Plan**														
	SWPPP						4.0			40.0		$ 500		44.0	$ 6,481.92
														0.0	$ -
														0.0	$ -
														0.0	$ -
	Subtotal	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**4.0**	**0.0**	**0.0**	**40.0**	**0.0**	**$ 500**		**44.0**	**$ 6,481.92**
8	**Water Quality Management Plan**														
	Water Quality Managment Plan	4.0					8.0			40.0		$ 500		52.0	$ 8,109.64
														0.0	$ -
														0.0	$ -
	Subtotal	**4.0**	**0.0**	**0.0**	**0.0**	**0.0**	**8.0**	**0.0**	**0.0**	**40.0**	**0.0**	**$ 500**		**52.0**	**$ 8,109.64**
9	**Construction Support Services**														
	Construction Meetings (6 total - virtual)	6.0								6.0				12.0	$ 2,223.60
	RFI Responses (10 total)	4.0								24.0				28.0	$ 4,135.40
	Submittal Reviews (10 total)	4.0								24.0				28.0	$ 4,135.40
	Site Visits (3 total)									9.0		$ 500		9.0	$ 1,693.85
	Bid Support (3 RFIs total)	3.0								9.0				12.0	$ 1,907.70
	Record Drawings	1.0								8.0				9.0	$ 1,299.15
	Subtotal	**18.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**80.0**	**0.0**	**$ 500**		**98.0**	**$ 15,395.10**
	TOTAL	**116.0**	**26.0**	**40.0**	**60.0**	**12.0**	**32.0**	**20.0**	**40.0**	**538.0**	**24.0**	**$ 1,500**	**$ 15,083**	**908.0**	**$ 163,642.04**

Reference: Proposal for Professional Engineering and CEQA Services
Santa Ana River Trail (SART) Phases 2, 2A and 3A

		Brandt									Wagstaff					
		Sr. PM	TM/SE	TM/SE	TM/SE	TM/SE	PE/CE/ Mapping Spec.	PE/CE/ Mapping Spec.	PE/CE/ Mapping Spec.	PE/CE/ Mapping Spec.	CE					
		$237.95	$218.24	$206.41	$198.21	$196.91	$172.96	$168.98	$168.15	$135.39	$132.65	$280				
Task No.	Task Description											2-Man	Direct Costs	Subconsultant Geotech	TOTAL TASK HOURS	TOTAL TASK FEE
A. SART Phase 2A																
1	**Project Management**															
	Project Management	40.0													40.0	$ 9,518.00
	Meetings (6 total - virtual)	6.0									6.0				12.0	$ 2,223.60
															0.0	$ -
															0.0	$ -
	Subtotal	**46.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**6.0**	**0.0**	**$ -**		**52.0**	**$ 11,741.60**
2	**Survey and Mapping**															
	Field Surveys (4 days total)						16.0				8.0	32.0			56.0	$ 12,788.56
	Mapping Base			8.0						24.0					32.0	$ 4,900.64
															0.0	$ -
															0.0	$ -
	Subtotal	**0.0**	**0.0**	**8.0**	**0.0**	**0.0**	**16.0**	**0.0**	**0.0**	**24.0**	**8.0**	**32.0**	**$ -**		**88.0**	**$ 17,689.20**
3	**Right-of-Way / License Agreements**															
	Right-of-Way / License Agreements	2.0		2.0							16.0				20.0	$ 3,011.12
															0.0	$ -
															0.0	$ -
															0.0	$ -
	Subtotal	**2.0**	**0.0**	**2.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**16.0**	**0.0**	**$ -**		**20.0**	**$ 3,011.12**
4	**Geotechnical Investigation**															
	Geotechnical Investigation	4.0									8.0			$ 40,434	12.0	$ 42,447.00
															0.0	$ -
															0.0	$ -
															0.0	$ -
	Subtotal	**4.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**8.0**	**0.0**	**$ -**		**12.0**	**$ 42,447.00**
5	**Drainage Studies**															
	Hydrology							4.0			24.0				28.0	$ 3,859.52
	Hydraulics				4.0			4.0			24.0				32.0	$ 4,652.36
	Water Quality Flow Rates and Volumes				4.0			4.0			24.0				32.0	$ 4,652.36
	Drainage Report	2.0						4.0			16.0				22.0	$ 3,274.22
															0.0	$ -
	Subtotal	**2.0**	**0.0**	**0.0**	**8.0**	**0.0**	**0.0**	**16.0**	**0.0**	**0.0**	**88.0**	**0.0**	**$ -**		**114.0**	**$ 16,438.46**
6	**Trail Plans, Specifications and Estimates**															
	Plans	40.0				60.0			20.0		280.0				400.0	$ 61,837.60
	Abutment Design		48.0												48.0	$ 10,475.52
	Specifications	8.0									40.0				48.0	$ 7,209.60
	Estimates	4.0									24.0				28.0	$ 4,135.40
															0.0	$ -
	Subtotal	**52.0**	**48.0**	**0.0**	**0.0**	**60.0**	**0.0**	**0.0**	**20.0**	**0.0**	**344.0**	**0.0**	**$ -**		**524.0**	**$ 83,658.12**
7	**Bridge Type Selection Memo**															
	Bridge Schematics	4.0									32.0				36.0	$ 5,196.60
	Bridge Selection Memo	4.0	4.0								8.0				16.0	$ 2,885.96
															0.0	$ -
															0.0	$ -
	Subtotal	**8.0**	**4.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**40.0**	**0.0**	**$ -**		**52.0**	**$ 8,082.56**
8	**Storm Water Pollution Prevention Plan**															
	SWPPP							4.0			40.0		$ 500		44.0	$ 6,481.92
															0.0	$ -
															0.0	$ -
															0.0	$ -
	Subtotal	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**4.0**	**0.0**	**0.0**	**40.0**	**0.0**	**$ 500**		**44.0**	**$ 6,481.92**
9	**Water Quality Management Plan**															
	Water Quality Managment Plan	4.0						8.0			40.0		$ 500		52.0	$ 8,109.64
															0.0	$ -
															0.0	$ -
															0.0	$ -
	Subtotal	**4.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**8.0**	**0.0**	**0.0**	**40.0**	**0.0**	**$ 500**		**52.0**	**$ 8,109.64**
10	**Construction Support Services**															
	Construction Meetings (6 total - virtual)	6.0									6.0				12.0	$ 2,223.60
	RFI Responses (10 total)	4.0									24.0				28.0	$ 4,135.40
	Submittal Reviews (10 total)	4.0									24.0				28.0	$ 4,135.40
	Site Visits (3 total)										9.0		$ 500		9.0	$ 1,693.85
	Bid Support (3 RFIs total)	3.0									9.0				12.0	$ 1,907.70
	Record Drawings	1.0									8.0				9.0	$ 1,299.15
															0.0	$ -
	Subtotal	**18.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**80.0**	**0.0**	**$ 500**		**98.0**	**$ 15,395.10**
	TOTAL	**136.0**	**52.0**	**10.0**	**8.0**	**60.0**	**16.0**	**28.0**	**20.0**	**24.0**	**670.0**	**32.0**	**$ 1,500**	**$ 40,434**	**1056.0**	**$ 213,054.72**

Reference: Proposal for Professional Engineering and CEQA Services
Santa Ana River Trail (SART) Phases 2, 2A and 3A

		Brandt								Wagstaff						
		Sr. PM	TM/SE	TM/SE	TM/SE	TM/SE	PE/CE/ Mapping Spec.	PE/CE/ Mapping Spec.	PE/CE/ Mapping Spec.	CE						
		$237.95	$218.24	$206.41	$198.21	$196.91	$172.96	$168.98	$168.15	$135.39	$132.65	$280.00				
												2-Man	Direct Costs	Subconsultant Geotech	TOTAL TASK HOURS	TOTAL TASK FEE
Task No.	Task Description															
A. SART Phase 3A																
1	**Project Management**															
	Project Management	24.0													24.0	$ 5,710.80
	Meetings (6 total - virtual)	6.0									6.0				12.0	$ 2,223.60
															0.0	$ -
															0.0	$ -
	Subtotal	**30.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**6.0**	**0.0**	**$ -**		**36.0**	**$ 7,934.40**
2	**Survey and Mapping**															
	Field Surveys (3 days total)						12.0				4.0	24.0			40.0	$ 9,326.12
	Mapping Base			8.0						24.0					32.0	$ 4,900.64
															0.0	$ -
															0.0	$ -
	Subtotal	**0.0**	**0.0**	**8.0**	**0.0**	**0.0**	**12.0**	**0.0**	**0.0**	**24.0**	**4.0**	**24.0**	**$ -**		**72.0**	**$ 14,226.76**
3	**Right-of-Way / License Agreements**															
	Right-of-Way / License Agreements	2.0		2.0							16.0				20.0	$ 3,011.12
															0.0	$ -
															0.0	$ -
															0.0	$ -
	Subtotal	**2.0**	**0.0**	**2.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**16.0**	**0.0**	**$ -**		**20.0**	**$ 3,011.12**
4	**Geotechnical Investigation**															
	Geotechnical Investigation	4.0									8.0			$ 17,926	12.0	$ 19,939.00
															0.0	$ -
															0.0	$ -
															0.0	$ -
	Subtotal	**4.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**8.0**	**0.0**	**$ -**		**12.0**	**$ 19,939.00**
5	**Drainage Studies**															
	Hydrology							4.0			24.0				28.0	$ 3,859.52
	Hydraulics							8.0			24.0				32.0	$ 4,535.44
	Water Quality Flow Rates and Volumes				4.0			4.0			24.0				32.0	$ 4,652.36
	Drainage Report	2.0			4.0						16.0				22.0	$ 3,391.14
															0.0	$ -
	Subtotal	**2.0**	**0.0**	**0.0**	**8.0**	**0.0**	**0.0**	**16.0**	**0.0**	**0.0**	**88.0**	**0.0**	**$ -**		**114.0**	**$ 16,438.46**
6	**Trail Plans, Specifications and Estimates**															
	Plans	40.0				60.0			20.0		240.0				360.0	$ 56,531.60
	Specifications	8.0									40.0				48.0	$ 7,209.60
	Estimates	4.0									24.0				28.0	$ 4,135.40
															0.0	$ -
	Subtotal	**52.0**	**0.0**	**0.0**	**0.0**	**60.0**	**0.0**	**0.0**	**20.0**	**0.0**	**304.0**	**0.0**	**$ -**		**436.0**	**$ 67,876.60**
7	**Storm Water Pollution Prevention Plan**															
	SWPPP							4.0			40.0		$ 500		44.0	$ 6,481.92
															0.0	$ -
															0.0	$ -
															0.0	$ -
	Subtotal	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**4.0**	**0.0**	**0.0**	**40.0**	**0.0**	**$ 500**		**44.0**	**$ 6,481.92**
8	**Water Quality Management Plan**															
	Water Quality Managment Plan							8.0			40.0		$ 500		52.0	$ 8,057.84
															0.0	$ -
															0.0	$ -
															0.0	$ -
	Subtotal	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**8.0**	**0.0**	**0.0**	**40.0**	**0.0**	**$ 500**		**52.0**	**$ 8,057.84**
9	**Phase 3B Bridge Study**															
	Field Survey (1 day total)						4.0				4.0	8.0			16.0	$ 3,462.44
	Bridge Alignment and Profile	4.0	8.0								40.0				52.0	$ 8,003.72
	Bridge Study Report	4.0	4.0								16.0				24.0	$ 3,947.16
															0.0	$ -
	Subtotal	**8.0**	**12.0**	**0.0**	**0.0**	**0.0**	**4.0**	**0.0**	**0.0**	**0.0**	**60.0**	**8.0**	**$ -**		**92.0**	**$ 15,413.32**
10	**Construction Support Services**															
	Construction Meetings (6 total - virtual)	6.0									6.0				12.0	$ 2,223.60
	RFI Responses (10 total)	4.0									24.0				28.0	$ 4,135.40
	Submittal Reviews (10 total)	4.0									24.0				28.0	$ 4,135.40
	Site Visits (3 total)										9.0		$ 500		9.0	$ 1,693.85
	Bid Support (3 RFIs total)	3.0									9.0				12.0	$ 1,907.70
	Record Drawings	1.0									8.0				9.0	$ 1,299.15
	Subtotal	**18.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**80.0**	**0.0**	**$ 500**		**98.0**	**$ 15,395.10**
	TOTAL	**116.0**	**12.0**	**10.0**	**8.0**	**60.0**	**16.0**	**28.0**	**20.0**	**24.0**	**646.0**	**32.0**	**$ 1,500**	**$ 17,926**	**976.0**	**$ 174,774.52**

Reference: Proposal for Professional Engineering and CEQA Services
Santa Ana River Trail (SART) Phases 2, 2A and 3A

		Cult Res Lead / Princ Bio	Cult Res Lead / Princ Bio	Sr. Bio / Prin Env Planner / Sr. Env Planner	Ruiz	Sr. Bio / Prin Env Planner / Sr. Env Planner			
		$220.51	$207.86	$164.11	$164.00	$152.22			
							Direct Costs	TOTAL TASK HOURS	TOTAL TASK FEE
Task No.	Task Description								
A. SART Phases 2, 2A and 3A CEQA Compliance									
Project Management / Meetings									
	Project Management	8.0	32.0					40.0	$ 8,415.60
	Meetigs / Hearings	8.0	16.0					24.0	$ 5,089.84
								0.0	$ -
								0.0	$ -
	Subtotal	**16.0**	**48.0**	**0.0**	**0.0**	**0.0**	**$ -**	**64.0**	**$ 13,505.44**
CEQA Compliance									
1	Coordination with USACE on CEQA Document	4.0	12.0					16.0	$ 3,376.36
2	Prepare Supplemental CEQA Analysis	16.0	24.0	120.0	16.0			176.0	$ 30,834.00
3	Coordination with RCTC/USACE on Circulation of NOI / MND	2.0	12.0					14.0	$ 2,935.34
4	Response to Comments, MMRP, and File NOD	16.0	16.0	32.0	8.0			72.0	$ 13,417.44
								0.0	$ -
	Subtotal	**38.0**	**64.0**	**152.0**	**24.0**	**0.0**	**$ -**	**278.0**	**$ 50,563.14**
Technical Reports and Permits									
5	Jurisdictional Determination/Wetland Delineation Report (JD/WDR)	5.0		36.0	8.0	34.0	$ 400	83.0	$ 13,897.99
6	Biological Resources Technical Report	5.0		34.0	8.0	30.0	$ 400	77.0	$ 12,960.89
7	Habitat Assessment/MSHCP Consitency Analysis	16.0		40.0	4.0		$ 175	60.0	$ 10,923.56
	DBESP	8.0		24.0	4.0			36.0	$ 6,358.72
8	401, 404 and 1602 Permits	16.0	16.0	24.0	58.0	24.0	$ 175	138.0	$ 24,132.84
9	Tribal Cultural Resources (AB 52)			8.0				8.0	$ 1,312.88
								0.0	$ -
	Subtotal	**50.0**	**16.0**	**166.0**	**82.0**	**88.0**	**$ 1,150**	**402.0**	**$ 69,586.88**
Direct Costs									
	CDFW and County CEQA Filing Fees (2021)						$ 2,530	0.0	$ 2,530.00
	Radius Map						$ 2,000	0.0	$ 2,000.00
	Mailing & Newspaper Notice						$ 4,500	0.0	$ 4,500.00
	Records Search						$ 800	0.0	$ 800.00
	Misc. Expenses (equipment, field expense,s and vehicles, etc.)						$ 2,000	0.0	$ 2,000.00
	1602 Long Term Permit Application Fee						$ 7,082	0.0	$ 7,082.00
	401 Application Fee						$ 10,000	0.0	$ 10,000.00
								0.0	$ -
	Subtotal	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**$ 28,912**	**0.0**	**$ 28,912.00**
	TOTAL	**104.0**	**128.0**	**318.0**	**106.0**	**88.0**	**$ 30,062**	**744.0**	**$ 162,567.46**

Reference: Proposal for Professional Engineering and CEQA Services
Santa Ana River Trail (SART) Phases 2, 2A and 3A

EXHIBIT D- Exhibit 10-H1

Phase 2

EXHIBIT 10-H1 COST PROPOSAL Page 1 of 3

ACTUAL COST-PLUS-FIXED FEE OR LUMP SUM (FIRM FIXED PRICE) CONTRACTS

(DESIGN, ENGINEERING AND ENVIRONMENTAL STUDIES)

Note: Mark-ups are Not Allowed ☐ Prime Consultant ☑ Subconsultant ☐ 2nd Tier Subconsultant

Consultant Stantec Consulting Services Inc.

Project No. Contract No. TBD Date

DIRECT LABOR

Classification/Title	Name/Range	Hours	Avg Hourly Rate	Total
Sr. Project Manager	Kevin Brandt* $83.66 - $100.00	116	$83.66	$9,704.56
Technical Manager / Structural Engineer	$65.00 - $90.00		$76.73	$0.00
Technical Manager / Structural Engineer	$65.00 - $90.00	26	$72.57	$1,886.82
Technical Manager / Structural Engineer	$65.00 - $90.00	40	$69.69	$2,787.60
Technical Manager / Structural Engineer	$65.00 - $90.00	60	$69.23	$4,153.80
Project Engineer / Civil Engineer / Mapping Specialist	$55.00 - $75.00	12	$60.81	$729.72
Project Engineer / Civil Engineer / Mapping Specialist	$55.00 - $75.00	32	$59.41	$1,901.12
Project Engineer / Civil Engineer / Mapping Specialist	$55.00 - $75.00	20	$59.12	$1,182.40
Project Engineer / Civil Engineer / Mapping Specialist	$45.00 - $55.00	40	$47.60	$1,904.00
Civil Engineer	Matt Wagstaff* $46.64 - $55.00	538	$46.64	$25,092.32

LABOR COSTS		
a) Subtotal Direct Labor Costs	$49,342.34	
b) Anticipated Salary Increases (see page 2 for calculation)	$0.00	
c) **TOTAL DIRECT LABOR COSTS** [(a) + (b)]		$49,342.34
INDIRECT COSTS		
d) Fringe Benefits (Rate: 51.377%) e) Total Fringe Benefits [(c) x (d)]	$25,350.61	
f) Overhead (Rate: 107.189%) g) Overhead [(c) x (f)]	$52,889.56	
h) General and Administrative (Rate: 0.00%) i) Gen & Admin [(c) x (h)]	$0.00	
j) **TOTAL INDIRECT COSTS** [(e) + (g) + (i)]		$78,240.17
FIXED FEE k) **TOTAL FIXED FEE** [(c) + (j)] x fixed fee 10%]		$12,758.25

l) CONSULTANT'S OTHER DIRECT COSTS (ODC) - ITEMIZE (Add additional pages if necessary)

Description of Item	Quantity	Unit(s)	Unit Cost	Total
Mileage Costs		mile	0.58	$0.00
Delivery		ea	$0.00	$0.00
Copies		ea	$0.00	$0.00
				$1,500.00
l) **TOTAL OTHER DIRECT COSTS**				$1,500.00

m) SUBCONSULTANT'S COSTS (Add additional pages if necessary)	
Subconsultant 1:	$6,720.00
Subconsultant 2:	$15,083.00
Subconsultant 3:	$0.00
Subconsultant 4:	$0.00
m) TOTAL SUBCONSULTANT'S COSTS	$21,803.00
n) **TOTAL OTHER DIRECT COSTS INCLUDING SUBCONSULTANTS** [(l) + (m)]	$23,303.00
TOTAL COST [(c) + (j) + (k) + (n)]	$163,643.77

NOTES:

1.Key personnel must be marked with an asterisk (*) and employees that are subject to prevailing wage requirements must be markedwith two asterisks (**). All costs must comply with the Federal cost principles. Subconsultants will provide their own cost proposals.

2.The cost proposal format shall not be amended. Indirect cost rates shall be updated on an annual basis in accordance with theconsultant's annual accounting period and established by a cognizant agency or accepted by Caltrans.

3.Anticipated salary increases calculation (page 2) must accompany.

Reference: Proposal for Professional Engineering and CEQA Services
Santa Ana River Trail (SART) Phases 2, 2A and 3A

Phase 2A

EXHIBIT 10-H1 COST PROPOSAL Page 1 of 3

ACTUAL COST-PLUS-FIXED FEE OR LUMP SUM (FIRM FIXED PRICE) CONTRACTS

(DESIGN, ENGINEERING AND ENVIRONMENTAL STUDIES)

Note: Mark-ups are Not Allowed ☐ Prime Consultant ☑ Subconsultant ☐ 2nd Tier Subconsultant

Consultant: Stantec Consulting Services Inc.

Project No.: Contract No.: TBD Date:

DIRECT LABOR

Classification/Title	Name/Range	Hours	Actual Hourly Rate	Total
Sr. Project Manager	Kevin Brandt* $83.66 - $100.00	136	$83.66	$11,377.76
Technical Manager / Structural Engineer	$65.00 - $90.00	52	$76.73	$3,989.96
Technical Manager / Structural Engineer	$65.00 - $90.00	10	$72.57	$725.70
Technical Manager / Structural Engineer	$65.00 - $90.00	8	$69.69	$557.52
Technical Manager / Structural Engineer	$65.00 - $90.00	60	$69.23	$4,153.80
Project Engineer / Civil Engineer / Mapping Specialist	$55.00 - $75.00	16	$60.81	$972.96
Project Engineer / Civil Engineer / Mapping Specialist	$55.00 - $75.00	28	$59.41	$1,663.48
Project Engineer / Civil Engineer / Mapping Specialist	$55.00 - $75.00	20	$59.12	$1,182.40
Project Engineer / Civil Engineer / Mapping Specialist	$45.00 - $55.00	24	$47.60	$1,142.40
Civil Engineer	Matt Wagstaff* $46.64 - $55.00	670	$46.64	$31,248.80

LABOR COSTS

a) Subtotal Direct Labor Costs	$57,014.78
b) Anticipated Salary Increases (see page 2 for calculation)	$0.00
c) **TOTAL DIRECT LABOR COSTS** [(a) + (b)]	$57,014.78

INDIRECT COSTS

d) Fringe Benefits (Rate: 51.377%)	e) Total Fringe Benefits [(c) x (d)]	$29,292.48	
f) Overhead (Rate: 107.189%)	g) Overhead [(c) x (f)]	$61,113.57	
h) General and Administrative (Rate: 0.00%)	i) Gen & Admin [(c) x (h)]	$0.00	
	j) **TOTAL INDIRECT COSTS** [(e) + (g) + (i)]		$90,406.06
FIXED FEE	k) **TOTAL FIXED FEE** [(c) + (j)] x fixed fee 10%]		$14,742.08

l) CONSULTANT'S OTHER DIRECT COSTS (ODC) - ITEMIZE (Add additional pages if necessary)

Description of Item	Quantity	Unit(s)	Unit Cost	Total
Mileage Costs		mile	0.58	$0.00
Delivery		ea	$0.00	$0.00
Copies		ea	$0.00	$0.00
				$1,500.00
			l) **TOTAL OTHER DIRECT COSTS**	$1,500.00

m) SUBCONSULTANT'S COSTS (Add additional pages if necessary)

Subconsultant 1:	$8,960.00
Subconsultant 2:	$40,434.00
Subconsultant 3:	$0.00
Subconsultant 4:	$0.00
m) **TOTAL SUBCONSULTANT'S COSTS**	$49,394.00
n) **TOTAL OTHER DIRECT COSTS INCLUDING SUBCONSULTANTS** [(l) + (m)]	$50,894.00
TOTAL COST [(c) + (j) + (k) + (n)]	$213,056.92

NOTES:

1.Key personnel must be marked with an asterisk (*) and employees that are subject to prevailing wage requirements must be markedwith two asterisks (**). All costs must comply with the Federal cost principles. Subconsultants will provide their own cost proposals.

2.The cost proposal format shall not be amended. Indirect cost rates shall be updated on an annual basis in accordance with theconsultant's annual accounting period and established by a cognizant agency or accepted by Caltrans.

3.Anticipated salary increases calculation (page 2) must accompany.

Reference: Proposal for Professional Engineering and CEQA Services
Santa Ana River Trail (SART) Phases 2, 2A and 3A

Phase 3A

EXHIBIT 10-H1 COST PROPOSAL Page 1 of 3

ACTUAL COST-PLUS-FIXED FEE OR LUMP SUM (FIRM FIXED PRICE) CONTRACTS

(DESIGN, ENGINEERING AND ENVIRONMENTAL STUDIES)

Note: Mark-ups are Not Allowed ☐ Prime Consultant ☑ Subconsultant ☐ 2nd Tier Subconsultant

Consultant: Stantec Consulting Services Inc.

Project No.: Contract No.: TBD Date:

DIRECT LABOR

Classification/Title	Name/Range	Hours	Actual Hourly Rate	Total
Sr. Project Manager	Kevin Brandt* $83.66 - $100.00	116	$83.66	$9,704.56
Technical Manager / Structural Engineer	$65.00 - $90.00	12	$76.73	$920.76
Technical Manager / Structural Engineer	$65.00 - $90.00	10	$72.57	$725.70
Technical Manager / Structural Engineer	$65.00 - $90.00	8	$69.69	$557.52
Technical Manager / Structural Engineer	$65.00 - $90.00	60	$69.23	$4,153.80
Project Engineer / Civil Engineer / Mapping Specialist	$55.00 - $75.00	16	$60.81	$972.96
Project Engineer / Civil Engineer / Mapping Specialist	$55.00 - $75.00	28	$59.41	$1,663.48
Project Engineer / Civil Engineer / Mapping Specialist	$55.00 - $75.00	20	$59.12	$1,182.40
Project Engineer / Civil Engineer / Mapping Specialist	$45.00 - $55.00	24	$47.60	$1,142.40
Civil Engineer	Matt Wagstaff* $46.64 - $55.00	646	$46.64	$30,129.44
			$0.00	$0.00

LABOR COSTS

a) Subtotal Direct Labor Costs	$51,153.02
b) Anticipated Salary Increases (see page 2 for calculation)	$0.00
c) **TOTAL DIRECT LABOR COSTS** [(a) + (b)]	$51,153.02

INDIRECT COSTS

d) Fringe Benefits (Rate: 51.377%)	e) Total Fringe Benefits [(c) x (d)]	$26,280.89
f) Overhead (Rate: 107.189%)	g) Overhead [(c) x (f)]	$54,830.41
h) General and Administrative (Rate: 0.00%)	i) Gen & Admin [(c) x (h)]	$0.00
	j) **TOTAL INDIRECT COSTS** [(e) + (g) + (i)]	$81,111.30
FIXED FEE	k) **TOTAL FIXED FEE** [(c) + (j)] x fixed fee 10%]	$13,226.43

l) CONSULTANT'S OTHER DIRECT COSTS (ODC) - ITEMIZE (Add additional pages if necessary)

Description of Item	Quantity	Unit(s)	Unit Cost	Total
Mileage Costs		mile	0.58	$0.00
Delivery		ea	$0.00	$0.00
Copies		ea	$0.00	$0.00
				$1,500.00
			l) **TOTAL OTHER DIRECT COSTS**	$1,500.00

m) SUBCONSULTANT'S COSTS (Add additional pages if necessary)

Subconsultant 1:	$8,960.00
Subconsultant 2:	$17,926.00
Subconsultant 3:	$0.00
Subconsultant 4:	$0.00
m) **TOTAL SUBCONSULTANT'S COSTS**	$26,886.00
n) **TOTAL OTHER DIRECT COSTS INCLUDING SUBCONSULTANTS** [(l) + (m)]	$28,386.00
TOTAL COST [(c) + (j) + (k) + (n)]	$173,876.75

NOTES:

1.Key personnel must be marked with an asterisk (*) and employees that are subject to prevailing wage requirements must be markedwith two asterisks (**). All costs must comply with the Federal cost principles. Subconsultants will provide their own cost proposals.

2.The cost proposal format shall not be amended. Indirect cost rates shall be updated on an annual basis in accordance with theconsultant's annual accounting period and established by a cognizant agency or accepted by Caltrans.

3.Anticipated salary increases calculation (page 2) must accompany.

Reference: Proposal for Professional Engineering and CEQA Services
Santa Ana River Trail (SART) Phases 2, 2A and 3A

CEQA and Permitting

EXHIBIT 10-H1 COST PROPOSAL Page 1 of 3

ACTUAL COST-PLUS-FIXED FEE OR LUMP SUM (FIRM FIXED PRICE) CONTRACTS

(DESIGN, ENGINEERING AND ENVIRONMENTAL STUDIES)

Note: Mark-ups are Not Allowed ☐ Prime Consultant ☑ Subconsultant ☐ 2nd Tier Subconsultant

Consultant: Stantec Consulting Services Inc.

Project No.: Contract No.: TBD Date:

DIRECT LABOR

Classification/Title	Name/Range	Hours	Actual Hourly Rate	Total
Cultural Resource Lead/Principal Biologist	$70.00 - $90.00	104	$77.53	$8,063.12
Cultural Resource Lead/Principal Biologist	$70.00 - $90.00	128	$73.08	$9,354.24
Sr. Biologist/Prin Env Planner/ Sr. Env Planner	$50.00 - $70.00	318	$57.70	$18,348.60
Sr. Biologist/Prin Env Planner/ Sr. Env Planner	Gilberto Ruiz* $57.66 - $70.00	106	$57.66	$6,111.96
Sr. Biologist/Prin Env Planner/ Sr. Env Planner	$40.00 - $65.00	88	$53.52	$4,709.76
			$0.00	$0.00
			$0.00	$0.00
			$0.00	$0.00

LABOR COSTS

a) Subtotal Direct Labor Costs	$46,587.68
b) Anticipated Salary Increases (see page 2 for calculation)	$0.00
c) **TOTAL DIRECT LABOR COSTS** [(a) + (b)]	$46,587.68

INDIRECT COSTS

d) Fringe Benefits (Rate: 51.377%)	e) Total Fringe Benefits [(c) x (d)]	$23,935.35	
f) Overhead (Rate: 107.189%)	g) Overhead [(c) x (f)]	$49,936.87	
h) General and Administrative (Rate: 0.00%)	i) Gen & Admin [(c) x (h)]	$0.00	
	j) **TOTAL INDIRECT COSTS** [(e) + (g) + (i)]		$73,872.22
FIXED FEE	k) **TOTAL FIXED FEE** [(c) + (j)] x fixed fee 10%]		$12,045.99

l) CONSULTANT'S OTHER DIRECT COSTS (ODC) - ITEMIZE (Add additional pages if necessary)

Description of Item	Quantity	Unit(s)	Unit Cost	Total
Mileage Costs		mile	0.58	$0.00
Delivery		ea	$0.00	$0.00
Copies		ea	$0.00	$0.00
				$30,062.00
			l) **TOTAL OTHER DIRECT COSTS**	$30,062.00

m) SUBCONSULTANT'S COSTS (Add additional pages if necessary)

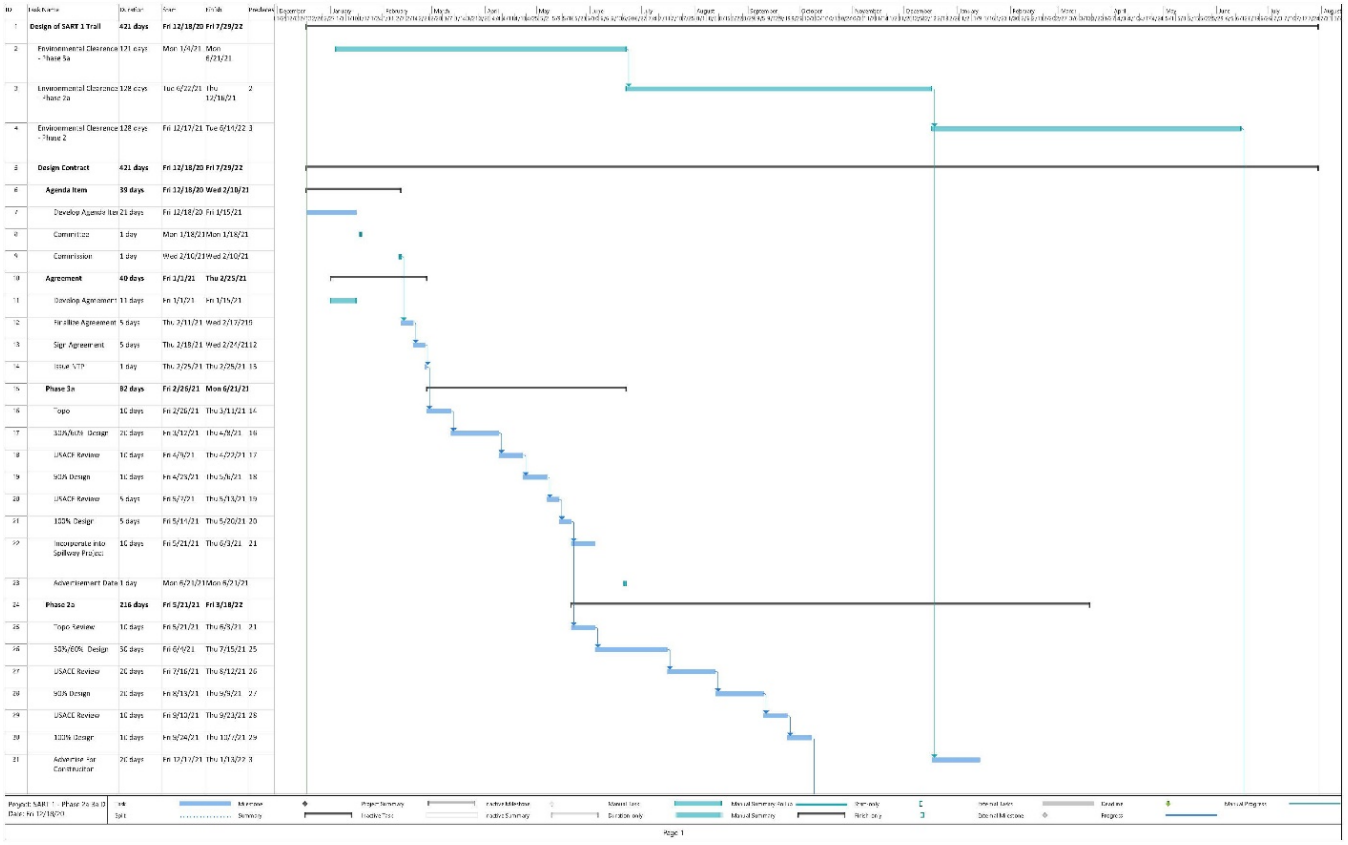
Subconsultant 1:	$0.00
Subconsultant 2:	$0.00
Subconsultant 3:	$0.00
Subconsultant 4:	$0.00
m) TOTAL SUBCONSULTANT'S COSTS	$0.00
n) **TOTAL OTHER DIRECT COSTS INCLUDING SUBCONSULTANTS** [(l) + (m)]	$30,062.00
TOTAL COST [(c) + (j) + (k) + (n)]	$162,567.89

NOTES:

1. Key personnel must be marked with an asterisk (*) and employees that are subject to prevailing wage requirements must be markedwith two asterisks (**). All costs must comply with the Federal cost principles. Subconsultants will provide their own cost proposals.
2. The cost proposal format shall not be amended. Indirect cost rates shall be updated on an annual basis in accordance with theconsultant's annual accounting period and established by a cognizant agency or accepted by Caltrans.
3. Anticipated salary increases calculation (page 2) must accompany.

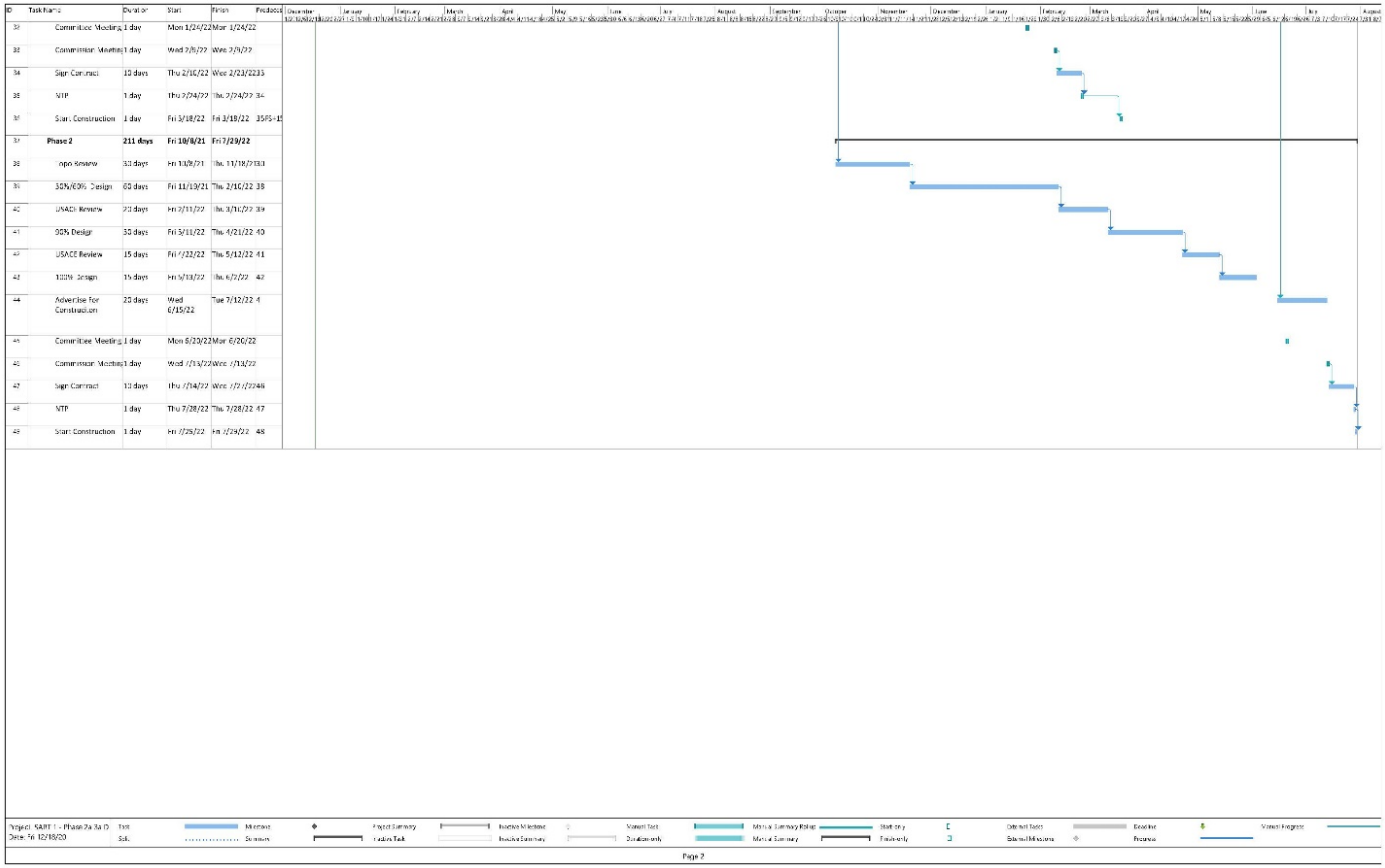
Reference: Proposal for Professional Engineering and CEQA Services
Santa Ana River Trail (SART) Phases 2, 2A and 3A

EXHIBIT E – Project Schedule



Design with community in mind

Reference: Proposal for Professional Engineering and CEQA Services
Santa Ana River Trail (SART) Phases 2, 2A and 3A



Reference: Proposal for Professional Engineering and CEQA Services
Santa Ana River Trail (SART) Phases 2, 2A and 3A

EXHIBIT F

Ninyo & Moore Proposals dated 01/12/21

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

January 12, 2021
Project No. 208627004

Mr. Kevin Brandt
Stantec
38 Technology Drive, Suite 100
Irvine, California 92618

Subject: Proposal for Geotechnical Consulting Services
Santa Ana River Trail Phase 2
Corona, California

Reference: Ninyo & Moore, 2020, Geotechnical Earthwork and Preliminary Pavement Design Recommendations, Santa Ana River Trail Phase 4, Corona, California, dated July 23.

Dear Mr. Brandt:

In accordance with your request, we have prepared this proposal to provide geotechnical consulting services for Phase 2 of the Santa Ana River Trail (SART) project located in Corona, California. We understand that an approximately 3,400-foot-long pedestrian, equestrian, and hiking trail is proposed along the southwest side of West Rincon Street and along the northwest side of Corydon Street roadway. We understand that the SART will be constructed as part of the Alcoa Dike project. Ninyo & Moore previously performed a geotechnical evaluation for the SART Phase 4 project, the results of which were presented in our report dated July 23, 2020. Details regarding the Phase 2 of the SART project were not provided during the preparation of this proposal, however, based on our previous evaluation of SART Phase 4, we understand that portions of the trail consist of natural surface trail that will be capped with decomposed granite and multi-use path that will be paved with asphalt concrete.

The primary geotechnical concerns for the project include evaluating the depths of remedial grading that will be needed to remove loose surficial soils prior to placing fill to construct the SART Phase 2, providing soil percolation rates for storm water infiltration facilities, and to provide recommendations for structural pavement sections for the asphalt concrete paved trail and the decomposed granite trail.

SCOPE OF SERVICES

Based on our understanding of the project, our scope of services will consist of a geotechnical evaluation including the following:

- Project coordination, planning, and scheduling for subsurface exploration.
- Review of readily available topographic, geologic, fault, and flood maps, other published literature, stereoscopic aerial photographs, and in-house information.
- Review previous geotechnical reports, addenda, and plans for the SART provided by the client.
- Performance of a geotechnical site reconnaissance and geologic mapping to observe the general site conditions, surficial geology, and to mark proposed test pit locations for utility clearance by Underground Service Alert (USA).
- Acquire encroachment permit to excavate along the City of Corona right-of-way, adjacent to the existing pavement, if required.
- Subsurface exploration consisting of the excavation, sampling, and logging of three (3) backhoe test pits to depths ranging from approximately 5 to 7 feet below existing grades, or refusal, whichever is shallower. The test pits will be excavated in the shoulder areas of the roadways, off of the pavement. The test pits will be logged by our engineer/geologist and samples will be obtained at selected intervals. The soil samples will be transported to our laboratory for testing. Following sampling and logging, the test pits will be backfilled with the excavated soil.
- Perform a two shallow percolation tests in accordance with the Riverside County guidelines.
- Laboratory testing of representative soil samples which may include in-situ moisture and dry density, sieve analyses, consolidation, direct shear strength, R-value, and soil corrosivity, as applicable.
- Compilation and geotechnical analysis of field and laboratory data, including analyses to evaluate and provide recommendations pertaining to the following:
    - Suitability of the site for the proposed construction from a geotechnical standpoint.
    - Description of the geology, soils, and groundwater depth at the site.
    - Evaluation of the site seismicity and potential geologic hazards.
    - Excavation characteristics of the on-site materials, including anticipated difficult excavation, caving potential, and oversize material handling.
    - Evaluation of remedial grading depths for the proposed trail and associated slopes (if any).
    - Fill material and compaction requirements, including suitability of the on-site soils for use as engineered fill and trench backfill.
    - Preparation of California Building Code seismic design parameters, if needed.
    - Evaluation of in-situ infiltration rate at the site.

- Evaluation of structural pavement design for the asphalt concrete paved multi-use path and the decomposed granite trail.

- Evaluation of the corrosion potential of on-site soils.

- Preparation of a geotechnical report for the site, presenting our findings, conclusions, and recommendations pertaining to the project. Our report will include a site plan, test pit location map, pertinent geologic and seismic hazard maps, test pit logs, and laboratory test results.

ASSUMPTIONS

In preparing this proposal, we have made the following assumptions:

- The test pit locations are accessible by a backhoe and the test pits can be performed during regular business hours (Monday through Friday, 7:00 am to 5:00 pm). If test pits need to be performed outside of these hours (after 5:00 pm on weekdays or during weekends), additional fees will be charged by our backhoe subcontractor.

- We will be provided with plans showing the locations of existing utilities. Ninyo & Moore will not be responsible for damage to utilities not shown on the plans nor marked out by USA.

- A permit for performing our test pits for the project within the City of Corona Right of Way, if needed, will be provided to Ninyo & Moore at no cost.

- A permit for performing our test pits for the project from the U.S. Army Corps of Engineers will not be required.

- Our test pits will be excavated off of the pavement, on the shoulder areas of the roadway. Traffic control will not be needed for our subsurface exploration. If traffic control is required, this can be provided for an additional fee.

- Our evaluation will not include any sampling, testing, or chemical analysis of hazardous materials, should they be encountered. These services can be provided, if warranted and if requested, as an additional scope of work.

SCHEDULE

Following receipt of the Notice to Proceed, Ninyo & Moore will commence the services described herein. We anticipate that our field work will begin within approximately two weeks after receipt of permits. Our laboratory testing will be completed approximately two weeks after completion of the field evaluation, and our report will be issued approximately two weeks after completion of the laboratory testing. Preliminary design parameters can be provided upon completion of the laboratory testing upon request.

FEE

Our services will be performed for a fee of $15,083. A breakdown of our fee and hours are presented in the attached Table 1.

Ninyo & Moore appreciates the opportunity to provide services on this project and we look forward to working with you.

Respectfully submitted,
NINYO & MOORE

Michael L. Putt, PG, CEG
Principal Geologist

MLP/mlc

Attachments: Table 1 – Breakdown of Fees
Schedule of Fees

Table 1 - Breakdown of Fee						
Project Coordination and Background Review						
Principal Engineer/Geologist/Environmental Scientist	1 hour	@	$ 188.00	/hour	$	188.00
Senior Project Engineer/Geologist/Environmental Scientist	2 hours	@	$ 173.00	/hour	$	346.00
Senior Staff Engineer/Geologist/Environmental Scientist	4 hours	@	$ 150.00	/hour	$	600.00
			Subtotal		**$**	**1,134.00**
Permit Acquisition						
Senior Staff Engineer/Geologist/Environmental Scientist	4 hours	@	$ 150.00	/hour	$	600.00
Permit (Encroachment)			Lump Sum		$	65.00
			Subtotal		**$**	**665.00**
Site Reconnaissance and Markout for Utility Clearance						
Senior Staff Engineer/Geologist/Environmental Scientist	6 hours	@	$ 150.00	/hour	$	900.00
Field Vehicle and Equipment Usage	6 hours	@	$ 15.00	/hour	$	90.00
			Subtotal		**$**	**990.00**
Subsurface Evaluation (Assumes 3 test pits up to approximately 10 feet deep)						
Senior Staff Engineer/Geologist/Environmental Scientist	16 hours	@	$ 150.00	/hour	$	2,400.00
Backhoe (Subcontractor)	8 hours	@	$ 200.00	/hour	$	1,600.00
Backhoe Mobilization/Demobilization	1 hour	@	$ 200.00	/hour	$	200.00
Field Vehicle and Equipment Usage	16 hours	@	$ 15.00	/hour	$	240.00
			Subtotal		**$**	**4,440.00**
Laboratory Analyses						
Tests to include sieve analysis, shear strength, consolidation, R-value, and corrosivity.					$	1,950.00
			Subtotal		**$**	**1,950.00**
Data Compilation and Analysis						
Principal Engineer/Geologist/Environmental Scientist	2 hours	@	$ 188.00	/hour	$	376.00
Senior Project Engineer/Geologist/Environmental Scientist	4 hours	@	$ 173.00	/hour	$	692.00
Senior Staff Engineer/Geologist/Environmental Scientist	8 hours	@	$ 150.00	/hour	$	1,200.00
			Subtotal		**$**	**2,268.00**
Report Preparation						
Principal Engineer/Geologist/Environmental Scientist	2 hours	@	$ 188.00	/hour	$	376.00
Senior Project Engineer/Geologist/Environmental Scientist	8 hours	@	$ 173.00	/hour	$	1,384.00
Senior Staff Engineer/Geologist/Environmental Scientist	8 hours	@	$ 150.00	/hour	$	1,200.00
Technical Illustrator/CAD Operator	4 hours	@	$ 98.00	/hour	$	392.00
Data Processor	4 hours	@	$ 71.00	/hour	$	284.00
			Subtotal		**$**	**3,636.00**
TOTAL FEE					**$**	**15,083.00**

Schedule of Fees

Hourly Charges for Personnel

Professional Staff

Principal Engineer/Geologist/Environmental Scientist/Certified Industrial Hygienist	$ 188
Senior Engineer/Geologist/Environmental Scientist	$ 178
Senior Project Engineer/Geologist/Environmental Scientist	$ 173
Project Engineer/Geologist/Environmental Scientist	$ 165
Senior Staff Engineer/Geologist/Environmental Scientist	$ 150
Staff Engineer/Geologist/Environmental Scientist	$ 134
GIS Analyst	$ 123
Technical Illustrator/CAD Operator	$ 98

Field Staff

Certified Asbestos/Lead Technician	$ 173
Field Operations Manager	$ 119
Nondestructive Examination Technician (UT, MT, LP)	$ 114
Supervisory Technician	$ 104
Special Inspector (Concrete, Masonry, Structural Steel, Welding, and Fireproofing)	$ 104
Senior Technician	$ 103
Technician	$ 98

Administrative Staff

Information Specialist	$ 83
Geotechnical/Environmental/Laboratory Assistant	$ 81
Data Processor	$ 71

Other Charges

Concrete Coring Equipment (includes technician)	$ 190/hr
Anchor Load Test Equipment (includes technician)	$ 190/hr
GPR Equipment	$ 180/hr
Inclinometer	$ 100/hr
Hand Auger Equipment	$ 80/hr
Rebar Locator (Pachometer)	$ 25/hr
Vapor Emission Kit	$ 65/kit
Nuclear Density Gauge	$ 12/hr
X-Ray Fluorescence	$ 70/hr
PID/FID	$ 25/hr
Air Sampling Pump	$ 10/hr
Field Vehicle	$ 15/hr
Expert Witness Testimony	$ 450/hr
Direct Expenses	Cost plus 15 %

Special equipment charges will be provided upon request.

Notes

For field and laboratory technicians and special inspectors, overtime rates at 1.5 times the regular rates will be charged for work performed in excess of 8 hours in one day Monday through Friday and all day on Saturday. Rates at twice the regular rates will be charged for all work in excess of 12 hours in one day, all day Sunday and on holidays.

Field technician and special inspection hours are charged at a 4-hour minimum, and 8-hour minimum for hours exceeding 4 hours.

Invoices are payable upon receipt. A service charge of 1.5 percent per month may be charged on accounts not paid within 30 days.

Our rates will be adjusted in conjunction with the increase in the Prevailing Wage Determination during the life of the project, as applicable.

The terms and conditions are included in Ninyo & Moore's Work Authorization and Agreement form.

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

January 12, 2021
Project No. 208627004

Mr. Kevin Brandt
Stantec
38 Technology Drive, Suite 100
Irvine, California 92618

Subject: Proposal for Geotechnical Consulting Services
Santa Ana River Trail Phase 2A
Corona, California

Reference: Ninyo & Moore, 2020, Geotechnical Earthwork and Preliminary Pavement Design Recommendations, Santa Ana River Trail Phase 4, Corona, California, dated July 23.

Dear Mr. Brandt:

In accordance with your request, we have prepared this proposal to provide geotechnical consulting services for Phase 2A of the Santa Ana River Trail (SART) project located in Corona, California. We understand that an approximately 6,400-foot-long pedestrian, equestrian, and hiking trail is proposed to the north and west of Butterfield Park that terminates at the northeast corner of the City of Corona Water Reclamation Plant (WCP), and continues from the southwest corner of the WCP towards Auto Center Drive. We understand that the SART will be constructed as part of the Alcoa Dike project. In addition, the Phase 2a of the SART will include two bridges that will span drainage swales. The bridges are anticipated to be pre-fabricated steel structures that will be supported by abutments on either side of the drainages. Ninyo & Moore previously performed a geotechnical evaluation for the SART Phase 4 project, the results of which were presented in our report dated July 23, 2020. Detailed plans for the Phase 2A of the SART project were not provided during the preparation of this proposal, however, based on our previous evaluation of SART Phase 4, we understand that portions of the trail consist of natural surface trail that will be capped with decomposed granite and multi-use path that will be paved with asphalt concrete.

The primary geotechnical concerns for the project include evaluating the depths of remedial grading that will be needed to remove loose surficial soils prior to placing fill to construct the SART Phase 2A, providing soil percolation rates for storm water infiltration facilities, to provide geotechnical design recommendation for the proposed trail bridges, and to provide recommendations for structural pavement sections for the asphalt concrete paved trail and the decomposed granite trail. In addition, the site vicinity is mapped as being susceptible to liquefaction by the County of Riverside.

Therefore, our services will include evaluating the liquefaction potential and the potential for dynamic settlement for the new bridges.

SCOPE OF SERVICES

Based on our understanding of the project, our scope of services will consist of a geotechnical evaluation including the following:

- Project coordination, planning, and scheduling for subsurface exploration.
- Review of readily available topographic, geologic, fault, and flood maps, other published literature, stereoscopic aerial photographs, and in-house information.
- Review previous geotechnical reports, addenda, and plans for the SART provided by the client.
- Performance of a geotechnical site reconnaissance and geologic mapping to observe the general site conditions, surficial geology, and to mark proposed test pit locations for utility clearance by Underground Service Alert (USA).
- Subsurface exploration consisting of the drilling, sampling, and logging of four small diameter borings to depths of up to approximately 60 feet below existing grades, or refusal, whichever is shallower. The borings will be drilled utilizing a limited-access hollow-stem auger drill rig. The borings will be logged by our engineer/geologist and samples will be obtained at selected intervals. The soil samples will be transported to our laboratory for testing. Following sampling and logging, the borings will be backfilled with the cement-bentonite grout. The cuttings will be spread thinly on-site.
- Subsurface exploration consisting of the excavation, sampling, and logging of three backhoe test pits to depths up to approximately 7 feet below existing grades, or refusal, whichever is shallower. The test pits will be logged by our engineer/geologist and samples will be obtained at selected intervals. The soil samples will be transported to our laboratory for testing. Following sampling and logging, the test pits will be backfilled with the excavated soil.
- Perform a two shallow percolation tests in accordance with the Riverside County guidelines.
- Laboratory testing of representative soil samples which may include in-situ moisture and dry density, sieve analyses, consolidation, direct shear strength, R-value, and soil corrosivity, as applicable.
- Compilation and geotechnical analysis of field and laboratory data, including analyses to evaluate and provide recommendations pertaining to the following:
    - Suitability of the site for the proposed construction from a geotechnical standpoint.
    - Description of the geology, soils, and groundwater depth at the site.
    - Evaluation of the site seismicity and potential geologic hazards.
    - Excavation characteristics of the on-site materials, including anticipated difficult excavation, caving potential, and oversize material handling.

- Evaluation of remedial grading depths for the proposed trail, bridge abutments, and associated slopes (if any).
- Fill material and compaction requirements, including suitability of the on-site soils for use as engineered fill and trench backfill.
- Development of site-specific response spectrum and acceleration parameters in accordance with CBC and Chapter 21 of American Society of Civil Engineers 7-16 guidelines.
- Evaluation of the anticipated earthquake ground motions and appropriate 2019 CBC seismic design parameters.
- Geotechnical engineering design parameters for new foundations for the bridges, including allowable bearing capacity values, lateral earth pressures, and estimated total and differential settlement. Recommendations will be provided for shallow foundations or a pile system, as appropriate.
- Evaluation of in-situ infiltration rate at the site.
- Evaluation of structural pavement design for the asphalt concrete paved multi-use path and the decomposed granite trail.
- Evaluation of the corrosion potential of on-site soils.

- Preparation of a geotechnical report for the site, presenting our findings, conclusions, and recommendations pertaining to the project. Our report will include a site plan, boring test pit location map, pertinent geologic and seismic hazard maps, boring and test pit logs, and laboratory test results.

ASSUMPTIONS

In preparing this proposal, we have made the following assumptions:

- The boring and test pit locations are accessible by a limited-access drill rig and backhoe, and the borings/test pits can be performed during regular business hours (Monday through Friday, 7:00 am to 5:00 pm). If the subsurface explorations need to be performed outside of these hours (after 5:00 pm on weekdays or during weekends), additional fees will be charged by our subcontractors.
- We will be provided with plans showing the locations of existing utilities. Ninyo & Moore will not be responsible for damage to utilities not shown on the plans nor marked out by USA.
- A permit for performing our borings and test pits for the project from the City of Corona and the U.S. Army Corps of Engineers will not be required.
- Our evaluation will not include any sampling, testing, or chemical analysis of hazardous materials, should they be encountered. These services can be provided, if warranted and if requested, as an additional scope of work.

SCHEDULE

Following receipt of the Notice to Proceed, Ninyo & Moore will commence the services described herein. We anticipate that our field work will begin within approximately two weeks after receipt of notice to proceed. Our laboratory testing will be completed approximately two weeks after completion of the field evaluation, and our report will be issued approximately three weeks after completion of the laboratory testing. Preliminary design parameters can be provided upon completion of the laboratory testing upon request.

FEE

Our services will be performed for a fee of $40,434. A breakdown of our fee and hours are presented in the attached Table 1.

Ninyo & Moore appreciates the opportunity to provide services on this project and we look forward to working with you.

Respectfully submitted,
NINYO & MOORE

Michael L. Putt, PG, CEG
Principal Geologist

FR/MLP/mlc

Attachments: Table 1 – Breakdown of Fees
Schedule of Fees

Table 1 - Breakdown of Fee						
Project Coordination and Background Review						
Principal Engineer/Geologist/Environmental Scientist	2 hours	@	$ 188.00	/hour	$	376.00
Senior Project Engineer/Geologist/Environmental Scientist	4 hours	@	$ 173.00	/hour	$	692.00
Senior Staff Engineer/Geologist/Environmental Scientist	6 hours	@	$ 150.00	/hour	$	900.00
			Subtotal		**$**	**1,968.00**
Site Reconnaissance and Markout for Utility Clearance						
Senior Staff Engineer/Geologist/Environmental Scientist	8 hours	@	$ 150.00	/hour	$	1,200.00
Field Vehicle and Equipment Usage	8 hours	@	$ 15.00	/hour	$	120.00
			Subtotal		**$**	**1,320.00**
Subsurface Evaluation (Assumes 4 borings up to approximately 60 feet, 3 test pits up to approximately 7 feet deep, and 2 percolation tests)						
Senior Staff Engineer/Geologist/Environmental Scientist	34 hours	@	$ 150.00	/hour	$	5,100.00
Drill Rig (Subcontractor)	20 hours	@	$ 425.00	/hour	$	8,500.00
Drill Rig Mobilization/Demobilization	4 hours	@	$ 425.00	/hour	$	1,700.00
Backhoe (Subcontractor)	6 hours	@	$ 200.00	/hour	$	1,200.00
Backhoe Mobilization/Demobilization	2 hours	@	$ 200.00	/hour	$	400.00
Grout Backfill	180 feet	@	$ 12.00	/foot	$	2,160.00
Field Vehicle and Equipment Usage	34 hours	@	$ 15.00	/hour	$	510.00
			Subtotal		**$**	**19,570.00**
Laboratory Analyses						
Tests to include moisture and dry density, Atterberg limits, sieve analysis, shear strength, consolidation, R-value, and corrosivity.					$	4,700.00
			Subtotal		**$**	**4,700.00**
Data Compilation and Analysis						
Principal Engineer/Geologist/Environmental Scientist	6 hours	@	$ 188.00	/hour	$	1,128.00
Senior Project Engineer/Geologist/Environmental Scientist	16 hours	@	$ 173.00	/hour	$	2,768.00
Senior Staff Engineer/Geologist/Environmental Scientist	20 hours	@	$ 150.00	/hour	$	3,000.00
			Subtotal		**$**	**6,896.00**
Report Preparation						
Principal Engineer/Geologist/Environmental Scientist	4 hours	@	$ 188.00	/hour	$	752.00
Senior Project Engineer/Geologist/Environmental Scientist	12 hours	@	$ 173.00	/hour	$	2,076.00
Senior Staff Engineer/Geologist/Environmental Scientist	12 hours	@	$ 150.00	/hour	$	1,800.00
Technical Illustrator/CAD Operator	8 hours	@	$ 98.00	/hour	$	784.00
Data Processor	8 hours	@	$ 71.00	/hour	$	568.00
			Subtotal		**$**	**5,980.00**
TOTAL FEE					**$**	**40,434.00**

Schedule of Fees

Hourly Charges for Personnel

Professional Staff

Principal Engineer/Geologist/Environmental Scientist/Certified Industrial Hygienist	$ 188
Senior Engineer/Geologist/Environmental Scientist	$ 178
Senior Project Engineer/Geologist/Environmental Scientist	$ 173
Project Engineer/Geologist/Environmental Scientist	$ 165
Senior Staff Engineer/Geologist/Environmental Scientist	$ 150
Staff Engineer/Geologist/Environmental Scientist	$ 134
GIS Analyst	$ 123
Technical Illustrator/CAD Operator	$ 98

Field Staff

Certified Asbestos/Lead Technician	$ 173
Field Operations Manager	$ 119
Nondestructive Examination Technician (UT, MT, LP)	$ 114
Supervisory Technician	$ 104
Special Inspector (Concrete, Masonry, Structural Steel, Welding, and Fireproofing)	$ 104
Senior Technician	$ 103
Technician	$ 98

Administrative Staff

Information Specialist	$ 83
Geotechnical/Environmental/Laboratory Assistant	$ 81
Data Processor	$ 71

Other Charges

Concrete Coring Equipment (includes technician)	$ 190/hr
Anchor Load Test Equipment (includes technician)	$ 190/hr
GPR Equipment	$ 180/hr
Inclinometer	$ 100/hr
Hand Auger Equipment	$ 80/hr
Rebar Locator (Pachometer)	$ 25/hr
Vapor Emission Kit	$ 65/kit
Nuclear Density Gauge	$ 12/hr
X-Ray Fluorescence	$ 70/hr
PID/FID	$ 25/hr
Air Sampling Pump	$ 10/hr
Field Vehicle	$ 15/hr
Expert Witness Testimony	$ 450/hr
Direct Expenses	Cost plus 15 %

Special equipment charges will be provided upon request.

Notes

For field and laboratory technicians and special inspectors, overtime rates at 1.5 times the regular rates will be charged for work performed in excess of 8 hours in one day Monday through Friday and all day on Saturday. Rates at twice the regular rates will be charged for all work in excess of 12 hours in one day, all day Sunday and on holidays.

Field technician and special inspection hours are charged at a 4-hour minimum, and 8-hour minimum for hours exceeding 4 hours.

Invoices are payable upon receipt. A service charge of 1.5 percent per month may be charged on accounts not paid within 30 days.

Our rates will be adjusted in conjunction with the increase in the Prevailing Wage Determination during the life of the project, as applicable.

The terms and conditions are included in Ninyo & Moore's Work Authorization and Agreement form.

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

January 12, 2021
Project No. 208627004

Mr. Kevin Brandt
Stantec
38 Technology Drive, Suite 100
Irvine, California 92618

Subject: Proposal for Geotechnical Consulting Services
Santa Ana River Trail Phase 3A
Corona, California

References: AECOM, 2020, Geotechnical Data Report, Geotechnical Investigation, Prado Dam Spillway Modifications, Riverside County, California, dated June.

Ninyo & Moore, 2020, Geotechnical Earthwork and Preliminary Pavement Design Recommendations, Santa Ana River Trail Phase 4, Corona, California, dated July 23.

Dear Mr. Brandt:

In accordance with your request, we have prepared this proposal to provide geotechnical consulting services for Phase 3A of the Santa Ana River Trail (SART) project located in Corona, California. We understand that an approximately 6,700-foot-long pedestrian, equestrian, and hiking trail is proposed south of Auto Center Drive and north of the 91 Freeway and will be constructed as part of the Alcoa Dike project. Ninyo & Moore previously performed a geotechnical evaluation for the SART Phase 4 project, the results of which were presented in our report dated July 23, 2020. In addition, AECOM has prepared a geotechnical data report in the vicinity of the western portion of Phase 4 alignment. Details regarding the Phase 3A of the SART project were not provided during the preparation of this proposal, however, based on our previous evaluation of SART Phase 4, we understand that portions of the trail consist of natural surface trail that will be capped with decomposed granite and multi-use path that will be paved with asphalt concrete.

The primary geotechnical concerns for the project include evaluating the depths of remedial grading that will be needed to remove loose surficial soils prior to placing fill to construct the SART Phase 3A, and to provide recommendations for structural pavement sections for the asphalt concrete paved trail and the decomposed granite trail.

SCOPE OF SERVICES

Based on our understanding of the project, our scope of services will consist of a geotechnical evaluation including the following:

- Project coordination, planning, and scheduling for subsurface exploration.
- Review of readily available topographic, geologic, fault, and flood maps, other published literature, stereoscopic aerial photographs, and in-house information.
- Review previous geotechnical reports, addenda, and plans for the SART provided by the client.
- Performance of a geotechnical site reconnaissance and geologic mapping to observe the general site conditions, surficial geology, and to mark proposed test pit locations for utility clearance by Underground Service Alert (USA).
- Subsurface exploration consisting of the excavation, sampling, and logging of six (6) backhoe test pits to depths up to approximately 7 feet below existing grades, or refusal, whichever is shallower. The test pits will be logged by our engineer/geologist and samples will be obtained at selected intervals. The soil samples will be transported to our laboratory for testing. Following sampling and logging, the test pits will be backfilled with the excavated soil.
- Laboratory testing of representative soil samples which may include in-situ moisture and dry density, sieve analyses, consolidation, direct shear strength, R-value, and soil corrosivity, as applicable.
- Compilation and geotechnical analysis of field and laboratory data, including analyses to evaluate and provide recommendations pertaining to the following:
    - Suitability of the site for the proposed construction from a geotechnical standpoint.
    - Description of the geology, soils, and groundwater depth at the site.
    - Evaluation of the site seismicity and potential geologic hazards.
    - Excavation characteristics of the on-site materials, including anticipated difficult excavation, caving potential, and oversize material handling.
    - Evaluation of remedial grading depths for the proposed trail and associated slopes (if any).
    - Fill material and compaction requirements, including suitability of the on-site soils for use as engineered fill and trench backfill.
    - Preparation of California Building Code seismic design parameters, if needed.
    - Evaluation of structural pavement design for the asphalt concrete paved multi-use path and the decomposed granite trail.
    - Evaluation of the corrosion potential of on-site soils.
- Preparation of a geotechnical report for the site, presenting our findings, conclusions, and recommendations pertaining to the project. Our report will include a site plan, test pit location map, pertinent geologic and seismic hazard maps, test pit logs, and laboratory test results.

ASSUMPTIONS

In preparing this proposal, we have made the following assumptions:

- The test pit locations are accessible by a backhoe and the test pits can be performed during regular business hours (Monday through Friday, 7:00 am to 5:00 pm). If test pits need to be

performed outside of these hours (after 5:00 pm on weekdays or during weekends), additional fees will be charged by our backhoe subcontractor.

- We will be provided with plans showing the locations of existing utilities. Ninyo & Moore will not be responsible for damage to utilities not shown on the plans nor marked out by USA.
- A permit for performing our test pits for the project from the City of Corona and the U.S. Army Corps of Engineers will not be required.
- Our services do not include performing percolation tests for storm water infiltration. If storm water infiltration is proposed, these services can be provided as an additional scope of work.
- Our evaluation will not include any sampling, testing, or chemical analysis of hazardous materials, should they be encountered. These services can be provided, if warranted and if requested, as an additional scope of work.

SCHEDULE

Following receipt of the Notice to Proceed, Ninyo & Moore will commence the services described herein. We anticipate that our field work will begin within approximately two weeks after receipt of permits. Our laboratory testing will be completed approximately two weeks after completion of the field evaluation, and our report will be issued approximately two weeks after completion of the laboratory testing. Preliminary design parameters can be provided upon completion of the laboratory testing upon request.

FEE

Our services will be performed for a fee of $17,926. A breakdown of our fee and hours are presented in the attached Table 1.

Ninyo & Moore appreciates the opportunity to provide services on this project and we look forward to working with you.

Respectfully submitted,
NINYO & MOORE

Michael L. Putt, PG, CEG
Principal Geologist

FR/MLP/mlc

Attachments: Table 1 – Breakdown of Fees
Schedule of Fees

Table 1 - Breakdown of Fee						
Project Coordination and Background Review						
Principal Engineer/Geologist/Environmental Scientist	1 hour	@	$ 188.00	/hour	$	188.00
Senior Project Engineer/Geologist/Environmental Scientist	2 hours	@	$ 173.00	/hour	$	346.00
Senior Staff Engineer/Geologist/Environmental Scientist	4 hours	@	$ 150.00	/hour	$	600.00
			Subtotal		**$**	**1,134.00**
Site Reconnaissance and Markout for Utility Clearance						
Senior Staff Engineer/Geologist/Environmental Scientist	8 hours	@	$ 150.00	/hour	$	1,200.00
Field Vehicle and Equipment Usage	8 hours	@	$ 15.00	/hour	$	120.00
			Subtotal		**$**	**1,320.00**
Subsurface Evaluation (Assumes 6 test pits up to approximately 10 feet deep)						
Senior Staff Engineer/Geologist/Environmental Scientist	12 hours	@	$ 150.00	/hour	$	1,800.00
Backhoe (Subcontractor)	12 hours	@	$ 200.00	/hour	$	2,400.00
Backhoe Mobilization/Demobilization	2 hours	@	$ 200.00	/hour	$	400.00
Field Vehicle and Equipment Usage	12 hours	@	$ 15.00	/hour	$	180.00
			Subtotal		**$**	**4,780.00**
Laboratory Analyses						
Tests to include sieve analysis, Atterberg limits, shear strength, R-value, and corrosivity.					$	3,450.00
			Subtotal		**$**	**3,450.00**
Data Compilation and Analysis						
Principal Engineer/Geologist/Environmental Scientist	2 hours	@	$ 188.00	/hour	$	376.00
Senior Project Engineer/Geologist/Environmental Scientist	6 hours	@	$ 173.00	/hour	$	1,038.00
Senior Staff Engineer/Geologist/Environmental Scientist	12 hours	@	$ 150.00	/hour	$	1,800.00
			Subtotal		**$**	**3,214.00**
Report Preparation						
Principal Engineer/Geologist/Environmental Scientist	2 hours	@	$ 188.00	/hour	$	376.00
Senior Project Engineer/Geologist/Environmental Scientist	8 hours	@	$ 173.00	/hour	$	1,384.00
Senior Staff Engineer/Geologist/Environmental Scientist	8 hours	@	$ 150.00	/hour	$	1,200.00
Technical Illustrator/CAD Operator	8 hours	@	$ 98.00	/hour	$	784.00
Data Processor	4 hours	@	$ 71.00	/hour	$	284.00
			Subtotal		**$**	**4,028.00**
TOTAL FEE					**$**	**17,926.00**

Schedule of Fees

Hourly Charges for Personnel

Professional Staff

Principal Engineer/Geologist/Environmental Scientist/Certified Industrial Hygienist	$ 188
Senior Engineer/Geologist/Environmental Scientist	$ 178
Senior Project Engineer/Geologist/Environmental Scientist	$ 173
Project Engineer/Geologist/Environmental Scientist	$ 165
Senior Staff Engineer/Geologist/Environmental Scientist	$ 150
Staff Engineer/Geologist/Environmental Scientist	$ 134
GIS Analyst	$ 123
Technical Illustrator/CAD Operator	$ 98

Field Staff

Certified Asbestos/Lead Technician	$ 173
Field Operations Manager	$ 119
Nondestructive Examination Technician (UT, MT, LP)	$ 114
Supervisory Technician	$ 104
Special Inspector (Concrete, Masonry, Structural Steel, Welding, and Fireproofing)	$ 104
Senior Technician	$ 103
Technician	$ 98

Administrative Staff

Information Specialist	$ 83
Geotechnical/Environmental/Laboratory Assistant	$ 81
Data Processor	$ 71

Other Charges

Concrete Coring Equipment (includes technician)	$ 190/hr
Anchor Load Test Equipment (includes technician)	$ 190/hr
GPR Equipment	$ 180/hr
Inclinometer	$ 100/hr
Hand Auger Equipment	$ 80/hr
Rebar Locator (Pachometer)	$ 25/hr
Vapor Emission Kit	$ 65/kit
Nuclear Density Gauge	$ 12/hr
X-Ray Fluorescence	$ 70/hr
PID/FID	$ 25/hr
Air Sampling Pump	$ 10/hr
Field Vehicle	$ 15/hr
Expert Witness Testimony	$ 450/hr
Direct Expenses	Cost plus 15 %

Special equipment charges will be provided upon request.

Notes

For field and laboratory technicians and special inspectors, overtime rates at 1.5 times the regular rates will be charged for work performed in excess of 8 hours in one day Monday through Friday and all day on Saturday. Rates at twice the regular rates will be charged for all work in excess of 12 hours in one day, all day Sunday and on holidays.

Field technician and special inspection hours are charged at a 4-hour minimum, and 8-hour minimum for hours exceeding 4 hours.

Invoices are payable upon receipt. A service charge of 1.5 percent per month may be charged on accounts not paid within 30 days.

Our rates will be adjusted in conjunction with the increase in the Prevailing Wage Determination during the life of the project, as applicable.

The terms and conditions are included in Ninyo & Moore's Work Authorization and Agreement form.