AMENDMENT TO "AGREEMENT FOR PROFESSIONAL CONSULTING SERVICES"

THIS AMENDMENT TO AGREEMENT FOR PROFESSIONAL CONSULTING SERVICES is made and entered into as of May 10, 2024 by and between the CITY OF IRVINE, a municipal corporation ("City") and T.Y. LIN INTERNATIONAL, a California corporation ("Consultant"), for the purpose of amending the written "Agreement for Professional Consulting Services" entered into between City and Consultant as of March 27, 2024, City of Irvine contract number 21216 (the "Agreement"). Consultant is included on the City of Irvine 2024 On-Call Program List.

- 1. PART V, BUDGET, is modified to increase the not-to-exceed project contract value of by \$58,000.00 from \$452,000.00 to \$510,000.00 for the Scope of Work in accordance with EXHIBIT I, attached hereto.
- 2. Except as set forth in this Amendment, all terms, conditions and provisions of the Agreement are unchanged and remain in full force and effect.

(Signatures follow on next page)

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

CITY OF IRVINE

T.Y. LIN INTERNATIONAL

By: Scan (rumby Sean Crumby

Its: Director of Public Works & Sustainability

By: Laru (Lapma)
Karen Chapman

Its: Vice President

By: Oliver Cui
Oliver C. Chi

Its: City Manager

By: William tz. Harnagel
William Harnagel

Its: Chief Financial Officer

Attest:

By: DocuSigned by:

By: Property of the proper

Its: City Clerk

APPROVED AS TO FORM: RUTAN & TUCKER, LLP

By: Jeffrey Melding

EXHIBIT I

TYLin

EN₃

April 25, 2024

Attn:

Deborah De Bow, PE Project Manager (Contract) PROJECT DELIVERY & SUSTAINABILITY 6427 Oak Canyon City of Irvine, CA 92618 (714) 330-3683 (cell) ddebow@cityofirvine.org

Dear Debbie,

As requested by the City, TYLin is pleased to submit this Amendment 1 proposal to provide Final Design services for the **Bosque Bridge** Abutments Grading as part of the Irvine Great Park Project.

General

The general scope of work consists of providing engineering design services for the preparation of plans, specifications according to the following milestones:

- 65% Design
 - o Includes Technical Specs outline (AASHTO Green Book format) and an updated cost estimate
- 90% Design
 - o Includes updated plans, specifications and cost estimate
- Final Design
 - Includes final signed, stamped grading plans, specifications (AASHTO Green Book format) and cost estimate/Bid Item list (quantities)

A more detailed scope is attached in Exhibit B

Schedule of Delivery

The proposed schedule is also attached in exhibit C. The packaging assumed is indicative and can be further discussed with the City and updated according to the project needs.

Fee

The total requested additional fee, as provided in Exhibit A is \$58,000. The rates are listed in Exhibit D.

Stéphane Dulor, PE, DBIA

Project Manager

Exhibit B

Irvine Great Park Pedestrian Bridges City of Irvine

Consultant: Activity: Phase: Task:

TYLin Bridge Engineering Design Phase I Bosque Bridge Amendment 1 - Abutment Grading

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IRVINE GREAT PARK BRIDGES DESIGN April 2024

AMENDMENT 1

In accordance with the current City of Irvine On-Call Consultant Agreement, the City of Irvine is requesting a proposal to provide engineering design services for the preparation of grading plans at the abutments, for design of the following four bridges located at the City of Irvine Great Park:

- 1. Timeline Bridge over Great Park Blvd
- 2. Bosque Trail Pedestrian Overcrossing over Great Park Blvd
- 3. Botanic Bridge
- 4. Championship Pedestrian Overcrossing

The bridges are described in the document entitled "Irvine Great Park DRAFT Type Selection Report/Schematic Design Report" dated October 6, 2023; attached herein as Exhibit A. This document describes a total of seven bridges (three of which will not be included in this contract and will be part of a future phase of the park development). This document will be considered as a Basis of Design Report.

Following is a summary of the scope of services requested:

SCOPE OF SERVICES

A. CIVIL DESIGN COMPONENT

Bridge Design package shall include sufficient (civil engineering) site/grading detail (plan and profile) to join the bridge structure to adjoining grade, estimated to typically join within 150-ft of bridge abutment. Detailed information concerning existing grades, geotechnical requirements and existing utility record information (e.g., IRWD, SCE) will be provided by the City. A short Retaining wall (less than 200ft long) is expected on the south eastern quadrant of Timeline Bridge and at the north eastern quadrant of Championship Bridge and will be included in the design. Retaining walls are expected to be Caltrans Standard Plan walls type.

B. PLAN SUBMITTALS

Bridge Designer will be responsible for the processing of plans for approval; however, City will receive/distribute/expedite the plan review process. "City" review of each submittal will include reviews by an independent third-party.

C. CONTRACT BID AND AWARD SUPPORT SERVICES

Designer shall include contract bid and award services that include staff support to answer bidder questions and provide bid analysis support.

D. MISCELLANEOUS SERVICES

IRVINE GREAT PARK BRIDGES DESIGN April 2024

Designer will be responsible for providing PS&Es in digital format per the latest edition of AutoCAD.

Designer will be responsible to attend up to 10 meetings throughout the project duration.

Designer will be responsible for addressing all review comments with a written response.

Designer will be responsible for coordination with all other consultants associated with the bridge; including but not limited to rough grading for bridge embankment, utilities, etc.

Trail design, geometry, and pavement sections are not included in this scope and to be developed by others.

E. CITY PROVIDED DOCUMENTS

City provided documents consist of the following:

- a. AutoCAD drawings for City right-of- way
- b. City/IRWD/SCE/AT&T utilities information
- c. Aerial topographic map
- d. Topographic survey data

F. Exclusions.

The following are excluded from this scope of services:

- a. Environment analysis
- b. Surveying/mapping
- c. Park Renderings
- d. Retaining walls (except for abutment at Timeline Bridge)
- e. Hydraulics/scour analysis
- f. Permits
- g. Landscaping

Schedule

Schedule will follow the main bridge design package submittal schedule.

EXHIBIT C - Irvine Great Park Phase I Schedule **TYLin** Fri 4/5/24 **Bridge Design & Construction** Task Name Duration Start Finish Predecessors Qtr 2, 2024 Qtr 3, 2024 Qtr 4, 2024 Qtr 1, 2025 Qtr 2, 2025 Qtr 3, 2025 Qtr 4, 2025 Qtr 1, 2026 Qtr 2 Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr Mon 4/22/24 Fri 1/30/26 Irvine Great Park Phase I Schedule 465 days **4/22** 1 100% DD NTP Mon 4/22/24 Mon 4/22/24 1 0 days 2 2 Bosque Bridge Package Mon 4/22/24 Fri 10/31/25 400 days 3 2.1 65% Design (100% DD) Mon 4/22/24 Fri 7/26/24 70 days 4 2.1.1 65% Design/Initial unchecked 45 days Mon 4/22/24 Fri 6/21/24 5 2.1.2 QA/QC/Inter-Disciplinary Review (IDR) Mon 6/24/24 Fri 7/12/24 15 days 6 Mon 7/15/24 Fri 7/26/24 2.1.3 City review 10 days 7 2.2 90% Design (50%CD) Mon 6/24/24 Fri 9/27/24 70 days 8 Mon 6/24/24 Fri 8/9/24 4.6FF-10 day 2.2.1 90% Design / Independent check 35 days 9 Mon 8/12/24 Fri 8/30/24 8 2.2.2 QA/QC/IDR 15 days 10 2.2.3 City review 20 days Mon 9/2/24 Fri 9/27/24 9 11 2.3 100% Design (100% CD) 45 days Mon 9/30/24 Fri 11/29/24 12 2.3.1 100% Design 20 days Mon 9/30/24 Fri 10/25/24 10 13 2.3.2 QA/QC/IDR Mon 10/28/24 Fri 11/15/24 15 days 14 2.3.3 City Permit Mon 11/18/24 Fri 11/29/24 13 10 days 15 2.4 Procurement / Bid 60 days Mon 12/2/24 Fri 2/21/25 16 2.5 Construction Mon 2/24/25 Fri 10/31/25 15 180 days 17 Mon 4/22/24 Fri 11/28/25 **3 Championship Bridge Package** 420 days 18 Mon 4/22/24 Fri 8/9/24 3.1 65% Design (100% DD) 80 days 19 3.1.1 65% Design/Initial unchecked 55 days Mon 4/22/24 Fri 7/5/24 1 20 Mon 7/8/24 Fri 7/26/24 19 3.1.2 QA/QC/Inter-Disciplinary Review (IDR) 15 days 21 3.1.3 City review 10 days Mon 7/29/24 Fri 8/9/24 20 22 Mon 7/8/24 Fri 10/18/24 3.2 90% Design (50%CD) 75 days 23 Fri 8/30/24 3.2.1 90% Design / Independent check 40 days Mon 7/8/24 19,21FF-10 24 23 3.2.2 QA/QC/IDR Mon 9/2/24 Fri 9/20/24 15 days 25 3.2.3 City review 20 days Mon 9/23/24 Fri 10/18/24 24 26 Mon 10/21/24 Fri 12/27/24 3.3 100% Design (100% CD) 50 days 27 3.3.1 100% Design Mon 10/21/24 Fri 11/22/24 25 25 days 28 3.3.2 QA/QC/IDR 15 days Mon 11/25/24 Fri 12/13/24 27 29 Mon 12/16/24 Fri 12/27/24 28 3.3.3 City Permit 10 days 30 3.4 Procurement / Bid 60 days Mon 12/30/24 Fri 3/21/25 Task **Inactive Summary** External Tasks Path Driving Predecessor Summary Task Split Manual Task External Milestone Path Driving Predecessor Normal Task Critical Milestone Duration-only Deadline Project: Irvine Great Park Phase Path Successor Milestone Task Manual Summary Rollup Critical Split Summary Date: Fri 4/5/24 **Project Summary** Manual Summary Path Successor Summary Task **Progress Inactive Task** Start-only Path Successor Normal Task **Manual Progress** Finish-only Inactive Milestone Path Driving Predecessor Milestone Task 🔷 7

EXHIBIT C - Irvine Great Park Phase I Schedule **TYLin** Fri 4/5/24 **Bridge Design & Construction** Task Name Duration Start Finish Predecessors Qtr 2, 2024 Qtr 3, 2024 Qtr 4, 2024 Qtr 1, 2025 Qtr 2, 2025 Qtr 3, 2025 Qtr 4, 2025 Qtr 1, 2026 Qtr 2 Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr 31 Mon 3/24/25 Fri 11/28/25 3.5 Construction 180 days 32 Mon 4/22/24 Fri 12/26/25 **4 Botanic Bridge Package** 440 days 33 4.1 65% Design (100% DD) Mon 4/22/24 Fri 8/30/24 95 days 34 4.1.1 65% Design/Initial unchecked Mon 4/22/24 Fri 7/26/24 70 days 35 4.1.2 QA/QC/Inter-Disciplinary Review (IDR) 15 days Mon 7/29/24 Fri 8/16/24 34 36 4.1.3 City review Mon 8/19/24 Fri 8/30/24 35 10 days 37 Mon 7/29/24 Fri 11/15/24 4.2 90% Design (50%CD) 80 days 38 4.2.1 90% Design / Independent check 45 days Mon 7/29/24 Fri 9/27/24 34,36FF-10 39 4.2.2 QA/QC/IDR 15 days Mon 9/30/24 Fri 10/18/24 38 40 Mon 10/21/24 Fri 11/15/24 39 4.2.3 City review 20 days 41 4.3 100% Design (100% CD) 50 days Mon 11/18/24 Fri 1/24/25 42 4.3.1 100% Design 25 days Mon 11/18/24 Fri 12/20/24 43 4.3.2 QA/QC/IDR 15 days Mon 12/23/24 Fri 1/10/25 42 44 4.3.3 City Permit Mon 1/13/25 Fri 1/24/25 43 10 days 45 4.4 Procurement / Bid Mon 1/27/25 Fri 4/18/25 60 days 46 4.5 Construction 180 days Mon 4/21/25 Fri 12/26/25 45 47 **5 Timeline Bridge Package** Mon 4/22/24 Fri 1/30/26 465 days 48 Mon 4/22/24 Fri 9/13/24 5.1 65% Design (100% DD) 105 days 49 5.1.1 65% Design/Initial unchecked Mon 4/22/24 Fri 8/9/24 80 days 1 50 5.1.2 QA/QC/Inter-Disciplinary Review (IDR) 15 days Mon 8/12/24 Fri 8/30/24 49 51 5.1.3 City review 10 days Mon 9/2/24 Fri 9/13/24 50 52 5.2 90% Design (50%CD) Mon 8/12/24 Fri 12/13/24 90 days 53 Mon 8/12/24 Fri 10/25/24 49,51FF-10 5.2.1 90% Design / Independent check 55 days 54 5.2.2 QA/QC/IDR 15 days Mon 10/28/24 Fri 11/15/24 53 55 Mon 11/18/24 Fri 12/13/24 54 5.2.3 City review 20 days 56 5.3 100% Design (100% CD) 55 days Mon 12/16/24 Fri 2/28/25 57 Mon 12/16/24 Fri 1/24/25 5.3.1 100% Design 30 days 58 5.3.2 QA/QC/IDR Mon 1/27/25 Fri 2/14/25 57 15 days 59 5.3.3 City Permit 10 days Mon 2/17/25 Fri 2/28/25 58 60 Mon 3/3/25 Fri 5/23/25 5.4 Procurement / Bid 60 days 59 61 5.5 Construction 180 days Mon 5/26/25 Fri 1/30/26 60 Task **External Tasks** Path Driving Predecessor Summary Task **Inactive Summary** Split Manual Task External Milestone Path Driving Predecessor Normal Task Critical Milestone Deadline Duration-only Project: Irvine Great Park Phase Path Successor Milestone Task Manual Summary Rollup Critical Split Summary Date: Fri 4/5/24 **Project Summary** Manual Summary Path Successor Summary Task **Progress Inactive Task** Start-only Path Successor Normal Task **Manual Progress** Inactive Milestone Finish-only Path Driving Predecessor Milestone Task 🔷 8

Exhibit D - Contract Billing Rates

TYLin

Bridge & Civil Engineering									
Classification	Billing Rate								
Classification	I	HOURLY	OT (x1.5)		0	T (x2.0)			
Director	\$	395.00							
Principal Discipline* Engineer	\$	350.00							
Lead Discipline* Engineer	\$	293.00							
Senior Discipline* Engineer II	\$	260.00							
Senior Discipline* Engineer I	\$	225.00							
Discipline*Engineer II	\$	186.00							
Discipline*Engineer I	\$	158.00							
Engineer II	\$	153.00							
Engineer I	\$	124.00							
Design Technician III	\$	163.00							
Design Technician II	\$	147.00							
Design Technician I	\$	112.00	\$	168.00	\$	224.00			
Engineering Intern	\$	68.00	\$	102.00	\$	136.00			
Senior Visualization/Architect	\$	225.00	\$	337.50	\$	450.00			
Visualization/Architect II	\$	203.00	\$	304.50	\$	406.00			
Visualization/Architect I	\$	135.00	\$	202.50	\$	270.00			
Administrative	\$	68.00	\$	102.00	\$	136.00			
Project Accountant	\$	71.00	\$	106.50	\$	142.00			

^{*} Disciplines include civil, transportation, structural, drainage, utility, etc.

Geotechnical-Foundations								
Classification	Billing Rate							
Classification		HOURLY			OT (x1.5)		T (x2.0)	
Principal		\$	320.00					
Principal Engineer/Geologist		\$	320.00					
Senior Engineer/Geologist		\$	235.00					
Senior Project Engineer/Geologist		\$	215.00					
Project Engineer/Geologist		\$	190.00					
Senior Staff Engineer/Geologist		\$	165.00					
Staff Engineer/Geologist		\$	145.00					
Senior Technician		\$	170.00					
Technician Non-PW (non-exempt) *		\$	90.00	\$	135.00	\$	180.00	
Administrative Assistants (non-exempt)*		\$	160.00	\$	240.00	\$	320.00	

^{*}Subject to prevailing wage

TYLin Area: E3 - Bridge Design

Electrical Engineering									
Classification	Billing Rate								
Classification		HOURLY		OT (x1.5)		T (x2.0)			
Principal	\$	280.00							
Senior Project Manager	\$	250.00							
Project Manager	\$	220.00							
Senior Engineer	\$	220.00							
Assistant Project Manager	\$	180.00							
Project Engineer	\$	150.00							
Assistant Engineer	\$	125.00	\$	187.50	\$	250.00			
Technical Support	\$	105.00	\$	157.50	\$	210.00			
Administrative Support	\$	75.00	\$	112.50	\$	150.00			

Surveying & Mapping										
Classification	Bi	Billing Rate								
	Ť	HOURLY	0	T (x1.5)	0	T (x2.0)				
Principal	\$	300.00								
Senior Project Manager	\$	270.00								
Project Manager	\$	235.00								
Senior Project Surveyor	\$	225.00	\$	337.50	\$	450.00				
Project Surveyor	\$	200.00	\$	300.00	\$	400.00				
Senior Survey analyst	\$	180.00	\$	270.00	\$	360.00				
Survey Analyst	\$	160.00	\$	240.00	\$	320.00				
Survey Technician	\$	140.00	\$	210.00	\$	280.00				
Project Coordinator	\$	135.00	\$	202.50	\$	270.00				
Survey Intern	\$	105.00	\$	157.50	\$	210.00				
1-Person Survey Crew (with equipment, truck)	\$	245.00	\$	367.50	\$	490.00				
2-Person Survey Crew (with equipment, truck)	\$	395.00	\$	592.50	\$	790.00				
3-Person Survey Crew (with equipment, truck)	\$	530.00	\$	795.00	\$:	1,060.00				

TYLin Area: E3 - Bridge Design

Environmental										
Classification		Billing Rate								
Classification		HOURLY		OT (x1.5)		T (x2.0)				
Senior Project Director	\$	350.00								
Project Director	\$	295.00								
Technical Director	\$	265.00								
Senior Technical analyst	\$	255.00								
Managing Consultant	\$	240.00								
Senior Consultant III	\$	220.00								
Senior Consultant II	\$	195.00								
Senior Consultant I	\$	180.00								
Consultant II	\$	170.00								
Consultant I	\$	160.00								
Associate Consultant II	\$	150.00	\$	225.00	\$	300.00				
Associate Consultant I	\$	135.00	\$	202.50	\$	270.00				
Assistant Consultant	\$	125.00	\$	187.50	\$	250.00				
Environmental Technician II	\$	120.00	\$	180.00	\$	240.00				
Environmental Technician I	\$	100.00	\$	150.00	\$	200.00				
Administrative Technician	\$	85.00	\$	127.50	\$	170.00				
Technician	\$	85.00	\$	127.50	\$	170.00				
Intern	\$	75.00	\$	112.50	\$	150.00				

Other Direct Costs					
Description	Billing Rate				
Reprographics	Cost + 10%				
Deliveries/messenger services	Cost + 10%				
Geotechnical testing & sampling	Priced per project/site				
Title company services	Cost + 10%				
Rental survey equipment	Cost + 10%				
Survey crews	Priced per project/site				
Other outside services	Cost + 10%				