

## **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 by \$58,000.00 from \$417,000.00 to \$475,000.00 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**

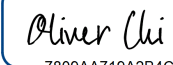
**T.Y. LIN INTERNATIONAL**

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By:   
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Sean Crumby

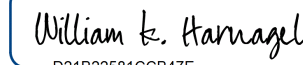
Its: Director of Public Works & Sustainability

DocuSigned by:  
By:   
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Karen Chapman

Its: Vice President


DocuSigned by:  
By:   
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Oliver C. Chi

Its: City Manager

DocuSigned by:  
By:   
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William Harnagel


Its: Chief Financial Officer

Attest:

DocuSigned by:  
By:   
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Carl Petersen

Its: City Clerk

APPROVED AS TO FORM:  
RUTAN & TUCKER, LLP

DocuSigned by:  
By:   
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Jeffrey Melching

**EXHIBIT I**



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 **Botanic 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
  - Includes Technical Specs outline (AASHTO Green Book format) and an updated cost estimate
- 90% Design
  - 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.

A handwritten signature in blue ink, appearing to read 'Stéphane Dulor', written over a horizontal line.

Stéphane Dulor, PE, DBIA  
Project Manager



# **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  
Bridge Design & Construction

TYLin  
Fri 4/5/24

D	Task Name	Duration	Start	Finish	Predecessors	Mar	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, 2026															
						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
0	Irvine Great Park Phase I Schedule	465 days	Mon 4/22/24	Fri 1/30/26																										
1	1 100% DD NTP	0 days	Mon 4/22/24	Mon 4/22/24																										
2	2 Bosque Bridge Package	400 days	Mon 4/22/24	Fri 10/31/25																										
3	2.1 65% Design (100% DD)	70 days	Mon 4/22/24	Fri 7/26/24																										
4	2.1.1 65% Design/ Initial unchecked	45 days	Mon 4/22/24	Fri 6/21/24	1																									
5	2.1.2 QA/QC/Inter-Disciplinary Review (IDR)	15 days	Mon 6/24/24	Fri 7/12/24	4																									
6	2.1.3 City review	10 days	Mon 7/15/24	Fri 7/26/24	5																									
7	2.2 90% Design (50%CD)	70 days	Mon 6/24/24	Fri 9/27/24																										
8	2.2.1 90% Design / Independent check	35 days	Mon 6/24/24	Fri 8/9/24	4,6FF-10 day																									
9	2.2.2 QA/QC/IDR	15 days	Mon 8/12/24	Fri 8/30/24	8																									
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	15 days	Mon 10/28/24	Fri 11/15/24	12																									
14	2.3.3 City Permit	10 days	Mon 11/18/24	Fri 11/29/24	13																									
15	2.4 Procurement / Bid	60 days	Mon 12/2/24	Fri 2/21/25	14																									
16	2.5 Construction	180 days	Mon 2/24/25	Fri 10/31/25	15																									
17	3 Championship Bridge Package	420 days	Mon 4/22/24	Fri 11/28/25																										
18	3.1 65% Design (100% DD)	80 days	Mon 4/22/24	Fri 8/9/24																										
19	3.1.1 65% Design/ Initial unchecked	55 days	Mon 4/22/24	Fri 7/5/24	1																									
20	3.1.2 QA/QC/Inter-Disciplinary Review (IDR)	15 days	Mon 7/8/24	Fri 7/26/24	19																									
21	3.1.3 City review	10 days	Mon 7/29/24	Fri 8/9/24	20																									
22	3.2 90% Design (50%CD)	75 days	Mon 7/8/24	Fri 10/18/24																										
23	3.2.1 90% Design / Independent check	40 days	Mon 7/8/24	Fri 8/30/24	19,21FF-10 c																									
24	3.2.2 QA/QC/IDR	15 days	Mon 9/2/24	Fri 9/20/24	23																									
25	3.2.3 City review	20 days	Mon 9/23/24	Fri 10/18/24	24																									
26	3.3 100% Design (100% CD)	50 days	Mon 10/21/24	Fri 12/27/24																										
27	3.3.1 100% Design	25 days	Mon 10/21/24	Fri 11/22/24	25																									
28	3.3.2 QA/QC/IDR	15 days	Mon 11/25/24	Fri 12/13/24	27																									
29	3.3.3 City Permit	10 days	Mon 12/16/24	Fri 12/27/24	28																									
30	3.4 Procurement / Bid	60 days	Mon 12/30/24	Fri 3/21/25	29																									

Project: Irvine Great Park Phase  
Date: Fri 4/5/24

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

◆

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Path Successor Milestone Task

Path Successor Summary Task

Path Successor Normal Task

Path Driving Predecessor Milestone Task

Path Driving Predecessor Summary Task

Path Driving Predecessor Normal Task

Critical

Critical Split

Progress

Manual Progress

EXHIBIT C - Irvine Great Park Phase I Schedule  
Bridge Design & Construction

TYLin  
Fri 4/5/24

D	Task Name	Duration	Start	Finish	Predecessors	Timeline																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Project: Irvine Great Park Phase  
Date: Fri 4/5/24

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Path Successor Milestone Task

Path Successor Summary Task

Path Successor Normal Task

Path Driving Predecessor Milestone Task

Path Driving Predecessor Summary Task

Path Driving Predecessor Normal Task

Critical

Critical Split

Progress

Manual Progress



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**Exhibit D - Contract Billing Rates**

Area: E3 - Bridge Design

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<b>Bridge &amp; Civil Engineering</b>			
Classification	Billing Rate		
	HOURLY	OT (x1.5)	OT (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.

<b>Geotechnical-Foundations</b>			
Classification	Billing Rate		
	HOURLY	OT (x1.5)	OT (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

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Area: E3 - Bridge Design

Electrical Engineering			
Classification	Billing Rate		
	HOURLY	OT (x1.5)	OT (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	Billing Rate		
	HOURLY	OT (x1.5)	OT (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

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Area: E3 - Bridge Design

Environmental			
Classification	Billing Rate		
	HOURLY	OT (x1.5)	OT (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%