

Prime Consultant     Subconsultant     2nd Tier Sub

Consultant **AnGenious Engineering Services, Inc.**

Project No. \_\_\_\_\_

Contract No. TBD

Date 18-Apr-21

**DIRECT LABOR**

Classification/Title	Name	Hours	Hourly Rates	Total
Project Manager	Andy Cheah	981	\$125.00	\$122,625.00
Sr. Project Engineer	Ray Ong	1,223	\$95.00	\$116,185.00
Project Engineer II	Cran Manila	1,394	\$85.00	\$118,490.00
Project Engineer I	Nick Khoo	890	\$70.00	\$62,300.00
Engineer III	Nik Patel	1,060	\$60.00	\$63,600.00
Engineer II	Josh Sun	800	\$52.00	\$41,600.00
Engineer I	Darren Cheah	1,340	\$41.00	\$54,940.00
Admin Assistant		-	\$38.50	\$0.00
		<b>7,688</b>		<b>\$579,740.00</b>

**LABOR COSTS**

a) Subtotal Direct Labor Costs	\$579,740.00
b) Anticipated Salary Increases (see page 2 for sample)	\$22,792.48
<b>c) TOTAL DIRECT LABOR COSTS [(a) + (b)]</b>	<b>\$602,532.48</b>

**FRINGE BENEFITS**

d) Fringe Benefits (Rate: _____)	<b>e) Total Fringe Benefits</b>
	[(c) x (d)] \$0.00

**INDIRECT COSTS**

f) Overhead (Rate: <u>110.00%</u> )	g) Overhead [(c) x (f)]	\$662,785.73
h) General and Administrative (Rate: _____)	i) Gen & Admin [(c) x (h)]	\$0.00
	<b>j) Total Indirect Costs [(e) + (g) + (i)]</b>	<b>\$662,785.73</b>

**FIXED FEE (Profit)**

q) (Rate: <u>10.00%</u> )	<b>k) TOTAL FIXED PROFIT [(c) + (j)] x (q)]</b>	<b>\$126,531.82</b>
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**l) OTHER DIRECT COSTS (ODC)**

Description	Unit(s)	Unit Cost	Total
Copy/Reprographics	6000 Page	\$3.00	\$18,000.00
Mails	100 Each	\$20.00	\$2,000.00
Mileage	7320 Miles	\$0.560	\$4,099.20
Tolls	30 Trips	\$15.00	\$450.00
<b>l) TOTAL OTHER DIRECT COSTS</b>			<b>\$24,549.20</b>

**m) Subconsultants:**

Earth Mechanics, Inc.	\$231,395.27	DBE
Michael Baker International	\$398,378.12	
NV5, Inc	\$246,444.30	
Paragon Partners Ltd	\$99,837.09	
Transystems Corporation	\$699,953.56	
10% Administrative	\$167,600.83	
<b>m) TOTAL SUBCONSULTANT'S COSTS</b>	<b>\$1,843,609.18</b>	

**n) Total Other Direct Costs Including Subconsultants [(l) + (m)]** **\$1,868,158.38**

**TOTAL COST [(c) + (j) + (k) + (n)]** **\$3,260,008.40**

Prime Consultant  Subconsultant  2nd Tier Sub

Consultant **AnGenious Engineering Services, Inc.**

Project No. \_\_\_\_\_

Contract No. TBD

Date \_\_\_\_\_

**1. Calculate Average Hourly Rate for 1st year of the contract (Direct Labor Subtotal divided by total**

Direct Labor Subtotal	Total Hours	Avg Hourly	2 Year Contract
per Cost Proposal	per Cost Proposal	Rate	Duration
\$579,740.00	7,688	= \$75.41	Year 1 Avg Hourly Rate

**2. Calculate hourly rate for all years (Increase the Average Hourly Rate for a year by proposed escalation %)**

	Avg Hourly Rate		Proposed Escalation			
Year 1	\$75.41	+	3%	=	\$77.67	Year 2 Avg Hourly Rate
Year 2	\$77.67	+	3%	=	\$80.00	Year 3 Avg Hourly Rate
Year 3	\$80.00	+	3%	=	\$82.40	Year 4 Avg Hourly Rate
Year 4	\$82.40	+	3%	=	\$84.87	Year 5 Avg Hourly Rate

**3. Calculate estimated hours per year (Multiply estimate % each year by total hours)**

	Estimated % Completed Each Year	*	Total Hours per Cost Proposal	=	Total Hours per Year	
Year 1	5.00%	*	7688.0	=	384.4	Estimated Hours Year 1
Year 2	60.00%	*	7688.0	=	4612.8	Estimated Hours Year 2
Year 3	35.00%	*	7688.0	=	2690.8	Estimated Hours Year 3
Year 4		*	7688.0	=	0.0	Estimated Hours Year 4
Year 5		*	7688.0	=	0.0	Estimated Hours Year 5
Total	100%		Total	=	7688.0	

**4. Calculate Total Costs including Escalation (Multiply Average Hourly Rate by the number of hours)**

	Avg Hourly Rate (calculated above)	*	Estimated hours (calculated above)	=	Cost per Year	
Year 1	\$75.41	*	384	=	\$28,987.00	Estimated Hours Year 1
Year 2	\$77.67	*	4613	=	\$358,279.32	Estimated Hours Year 2
Year 3	\$80.00	*	2691	=	\$215,266.16	Estimated Hours Year 3
Year 4	\$82.40	*	0	=	\$0.00	Estimated Hours Year 4
Year 5	\$84.87	*		=	\$0.00	Estimated Hours Year 5
	Total Direct Labor Cost with Escalation			=	\$602,532.48	
	Direct Labor Subtotal before Escalation			=	\$579,740.00	
	Estimated total of Direct Labor Salary Increase			=	\$22,792.48	Transfer to Page 1

**Avenue 50 Bridge Over CVSC**

Certification of Direct Costs:

I, the undersigned, certify to the best of my knowledge and belief that all direct costs identified on the cost proposal(s) in this contract are actual, reasonable, allowable, and allocable to the contract in accordance with the contract terms and the following requirements:

1. Generally Accepted Accounting Principles (GAAP)
2. Terms and conditions of the contract
3. Title 23 United States Code Section 112 - Letting of Contracts
4. 48 Code of Federal Regulations Part 31 - Contract Cost Principles and Procedures
5. 23 Code of Federal Regulations Part 172 - Procurement, Management, and Administration of Engineering and Design Related Service
6. 48 Code of Federal Regulations Part 9904 - Cost Accounting Standards Board (when applicable)

All costs must be applied consistently and fairly to all contracts. All documentation of compliance must be retained in the project files and be in compliance with applicable federal and state requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement. Local governments are responsible for applying only cognizant agency approved or Caltrans accepted Indirect Cost Rate(s).

**Prime Consultant or Subconsultant Certifying:**

Name:	_____	Title *:	_____
		Date of	_____
		Certification	_____
Signature :	_____	(mm/dd/yyyy):	_____
Email:	_____	Phone Number:	_____
Address:	_____		

List services the Subconsultants are providing under the proposed contract:

SCOPE OF WORK - ESTIMATED HOURS WORKSHEET

Fully Loaded Hourly Rate (Direct Labor, overhead, and profit)		\$288.75	\$219.45	\$196.35	\$161.70	\$138.60	\$120.12	\$94.71	\$88.94	TOTAL HOURS	TOTAL COST without Labor Escalation	TOTAL COST with Labor Escalation	
TASKS	Task No	Staff Name	Andy Cheah	Ray Ong	Cran Manila	Nick Khoo	Nik Patel	Josh Sun	Darren Cheah				0
		Staff Classification	Project Manager	Sr. Project Engineer	Project Engineer II	Project Engineer I	Engineer III	Engineer II	Engineer I				Admin Assistant
<b>1</b>	<b>Project Management Services</b>												
	1.1	Administration	80								80	\$23,100.00	\$24,008.18
	1.2	Coordination and Meetings	120								120	\$34,650.00	\$36,012.26
	1.3	Quality Assurance and Quality Control	60								60	\$17,325.00	\$18,006.13
	1.4	Project Schedule	40								40	\$11,550.00	\$12,004.09
	1.5	Risk Management	40								40	\$11,550.00	\$12,004.09
	1.6	Project Budget, Cost Accounting and Reporting	32								32	\$9,240.00	\$9,603.27
	1.7	Prepare Funding Applications	40			40			80		160	\$25,594.80	\$26,601.06
<b>2</b>	<b>Draft Final Design Services (35% PS&amp;E)</b>												
	2.1	Surveys and Mapping									0	\$0.00	\$0.00
	2.2	Prepare Draft Plans	8	20	40		80		80		228	\$33,217.80	\$34,523.76
	2.3	Prepare Draft Cost Estimates	8	8		40		40			96	\$15,338.40	\$15,941.43
	2.4	Drainage Report	8	16							24	\$5,821.20	\$6,050.06
	2.5	Structures Type Selection Report, GP, & Estimate	8	16							24	\$5,821.20	\$6,050.06
	2.6	Geotechnical Design Report	8	8							16	\$4,065.60	\$4,225.44
	2.7	Utility Coordination and Research	16	24	40			40			120	\$22,545.60	\$23,431.98
	2.8	Right-Of-Way Requirements and Engineering	8	20		40	40		80		188	\$26,287.80	\$27,321.30
	2.8.1	Prepare Right-of-way requirements			40			80			120	\$17,463.60	\$18,150.18
	2.8.2	Prepare Legal Descriptions and Plat Maps	8	16	24						48	\$10,533.60	\$10,947.73
<b>3</b>	<b>Right-Of-Way Acquisition Services</b>												
	3.1	Appraisal	20	32		40			40		132	\$23,053.80	\$23,960.16
	3.2	Acquisition Support Services	20	32		40			40		132	\$23,053.80	\$23,960.16
<b>4</b>	<b>Permits/Agreements</b>												
	4.1	Clean Water Act Section 401 Water Quality	8		20			40			68	\$11,041.80	\$11,475.91
	4.2	Clean Water Act Section 404 Standard Individual Permit	8		20			40			68	\$11,041.80	\$11,475.91
	4.3	California Fish and Game Code Section 1602 Streambed	8		20			40			68	\$11,041.80	\$11,475.91
	4.4	CVWD Encroachment Permit	8	20							28	\$6,699.00	\$6,962.37
<b>5</b>	<b>Draft Final Design Services – 65% PS&amp;E Submittal</b>												
	5.1	Title Sheet	1	1		4			20		26	\$3,049.20	\$3,169.08
	5.2	Typical Cross Sections	2	16	24		80				122	\$19,889.10	\$20,671.04
	5.3	Plan and Profile Sheets	8	40	40			40	60		188	\$29,429.40	\$30,586.42
	5.4	Construction Details	8	16		40	40		40		144	\$21,621.60	\$22,471.65
	5.5	Grading Plans	8		40	120					168	\$29,568.00	\$30,730.47
	5.6	Drainage Report and Plans	4	16	20						40	\$8,593.20	\$8,931.04
	5.7	Irrigation Lateral and Tile Drain System	8	16							24	\$5,821.20	\$6,050.06
	5.8	Water Plans	8	20	40			40			108	\$19,357.80	\$20,118.85
	5.9	Utility Plans	24	32	40		40				136	\$27,350.40	\$28,425.68
	5.10	Summary of Quantities	4	8	8		40	40			100	\$14,830.20	\$15,413.25
	5.11	Stage Construction Plans	8	20	40			40			108	\$19,357.80	\$20,118.85
	5.12	Traffic Handling and Detour Plans	8	20	40		40				108	\$20,097.00	\$20,887.11
	5.13	Signing and Pavement Delineation Plans	8	8	8		40		60		124	\$16,863.00	\$17,525.97
	5.14	Traffic Signal and Street Lighting Plans	4	8	8						20	\$4,481.40	\$4,657.59
	5.15	Temporary Water Pollution and Erosion Control Plans	4	8	8						20	\$4,481.40	\$4,657.59
	5.16	Retaining Wall Plans	8	20	40		40		60		168	\$25,779.60	\$26,793.12

5.17	Bridge Plans	4	8	8						20	\$4,481.40	\$4,657.59
5.18	Bridge Independent Check	4	8	8						20	\$4,481.40	\$4,657.59
5.19	Cost Estimates	8	16		40				40	104	\$16,077.60	\$16,709.69
5.20	Specifications	8	32							40	\$9,332.40	\$9,699.30
<b>6</b>	<b>Draft Final Design Services – 95% PS&amp;E Submittal</b>											
6.1	Title Sheet	1	1		4				12	18	\$2,291.52	\$2,381.61
6.2	Typical Cross Sections	2	20	40	40	80				182	\$30,376.50	\$31,570.75
6.3	Plan and Profile Sheets	8	40	40			40		60	188	\$29,429.40	\$30,586.42
6.4	Construction Details	8	16		40	40			40	144	\$21,621.60	\$22,471.65
6.5	Grading Plans	8		40	80					128	\$23,100.00	\$24,008.18
6.6	Drainage Plans	4	16	20						40	\$8,593.20	\$8,931.04
6.7	Irrigation Lateral and Tile Drain System	8	16							24	\$5,821.20	\$6,050.06
6.8	Water Plans	8	20	40			40			108	\$19,357.80	\$20,118.85
6.9	Utility Plans	24	32	40		40				136	\$27,350.40	\$28,425.68
6.10	Summary of Quantities	4	8	8		40	40			100	\$14,830.20	\$15,413.25
6.11	Stage Construction Plans	8	20	40	80		40			188	\$32,293.80	\$33,563.43
6.12	Traffic Handling and Detour Plans	8	20	40	80	40				188	\$33,033.00	\$34,331.69
6.13	Signing and Pavement Delineation Plans	8	8	8		40			60	124	\$16,863.00	\$17,525.97
6.14	Traffic Signal and Street Lighting Plans	4	8	8						20	\$4,481.40	\$4,657.59
6.15	Temporary Water Pollution and Erosion Control Plans	4	8	8						20	\$4,481.40	\$4,657.59
6.16	Retaining Wall Plans	8	20	40		40			60	168	\$25,779.60	\$26,793.12
6.17	Bridge Plans	4	8	8						20	\$4,481.40	\$4,657.59
6.18	Cost Estimates	8	16		40				40	104	\$16,077.60	\$16,709.69
6.19	Specifications	8	32							40	\$9,332.40	\$9,699.30
<b>7</b>	<b>Final Design Services – 100% PS&amp;E Submittal</b>											
7.1	Title Sheet	1	1		2				8	12	\$1,589.28	\$1,651.76
7.2	Typical Cross Sections	2	16	24		60				102	\$17,117.10	\$17,790.06
7.3	Plan and Profile Sheets	8	24	24			40		60	156	\$22,776.60	\$23,672.06
7.4	Construction Details	8	16		40	40			40	144	\$21,621.60	\$22,471.65
7.5	Grading Plans	8		40	40					88	\$16,632.00	\$17,285.89
7.6	Drainage Plans	4	16	20						40	\$8,593.20	\$8,931.04
7.7	Irrigation Lateral and Tile Drain System	8	16							24	\$5,821.20	\$6,050.06
7.8	Water Plans	8	20	40			40		80	188	\$26,934.60	\$27,993.53
7.9	Utility Plans	24	32	40		40			40	176	\$31,138.80	\$32,363.02
7.10	Summary of Quantities	4	8	8		40				60	\$10,025.40	\$10,419.55
7.11	Stage Construction Plans	8	20	24			40		80	172	\$23,793.00	\$24,728.42
7.12	Traffic Handling and Detour Plans	8	20	24		40				92	\$16,955.40	\$17,622.00
7.13	Signing and Pavement Delineation Plans	8	8	8		40			60	124	\$16,863.00	\$17,525.97
7.14	Traffic Signal and Street Lighting Plans	4	8	8						20	\$4,481.40	\$4,657.59
7.15	Temporary Water Pollution and Erosion Control Plans	4	8	8						20	\$4,481.40	\$4,657.59
7.16	Retaining Wall Plans	8	20	40		40			60	168	\$25,779.60	\$26,793.12
7.17	Bridge Plans	4	8	8						20	\$4,481.40	\$4,657.59
7.18	Cost Estimates	8	16		40				40	104	\$16,077.60	\$16,709.69
7.19	Specifications	8	32							40	\$9,332.40	\$9,699.30
<b>8</b>	<b>Resident Engineer File and Supplemental Materials</b>											
8.1	Resident Engineer's Pending File	8	60	80			40			188	\$35,989.80	\$37,404.74
8.2	Supplemental PS&E Materials	8	40	40			40			128	\$23,746.80	\$24,680.41
<b>9</b>	<b>Contract Bid Documents (Ready-To-List)</b>											
9.1	Assemble Bid Package			2						2	\$392.70	\$408.14
<b>TOTAL HOURS</b>		<b>981</b>	<b>1,223</b>	<b>1,394</b>	<b>890</b>	<b>1,060</b>	<b>800</b>	<b>1,340</b>	<b>0</b>	<b>7,688</b>	<b>\$1,339,199.40</b>	<b>\$1,391,850.02</b>

Total Escalations \$52,650.62

**Grand Total \$1,391,850.02**

**Avenue 50 Brideg Over CVSC**

Prime Consultant     Subconsultant     2nd Tier Sub

Consultant Earth Mechanics, Inc.

Project No. \_\_\_\_\_ Contract No. TBD Date 19-Apr-21

**DIRECT LABOR**

Classification/Title	Name	Hours	Hourly Rates	Total
Principal/PM	Alahesh Thuraiajah	180	\$73.00	\$13,140.00
Senior Engineer	Mike Kapuskar	280	\$65.50	\$18,340.00
Sr. Project Geologist	Michael Hoshiyama	196	\$51.50	\$10,094.00
Senior Technician	Jianmin Fang	188	\$43.00	\$8,084.00
Senior Staff Engineer	Pratha Ragavan	200	\$41.00	\$8,200.00
		-		\$0.00
		-		\$0.00
		-		\$0.00
		<b>1,044</b>		<b>\$57,858.00</b>

**LABOR COSTS**

a) Subtotal Direct Labor Costs	\$57,858.00
b) Anticipated Salary Increases (see page 2 for sample)	\$1,740.95
<b>c) TOTAL DIRECT LABOR COSTS [(a) + (b)]</b>	<b>\$59,598.95</b>

**FRINGE BENEFITS**

d) Fringe Benefits (Rate: <u>79.45%</u> )	<b>e) Total Fringe Benefits</b>
	[(c) x (d)]
	\$47,351.36

**INDIRECT COSTS**

f) Overhead (Rate: <u>106.01%</u> )	g) Overhead [(c) x (f)]	\$63,180.84
h) General and Administrative (Rate: <u>0.00%</u> )	i) Gen & Admin [(c) x (h)]	\$0.00
	<b>j) Total Indirect Costs [(e) + (g) + (i)]</b>	<b>\$110,532.21</b>

**FIXED FEE (Profit)**

q) (Rate: <u>10.00%</u> )	<b>k) TOTAL FIXED PROFIT [(c) + (j)] x (q)</b>	<b>\$17,013.12</b>
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**l) OTHER DIRECT COSTS (ODC)**

Description	Unit(s)	Unit Cost	Total
Copy/Reprographics	Page		\$0.00
Mails	Each		\$0.00
Mileage	2600 Miles	\$0.560	\$1,456.00
			\$0.00
	<b>l) TOTAL OTHER DIRECT COSTS</b>		<b>\$1,456.00</b>

**m) Subconsultants:**

Drill Rig Rental	\$33,440.00
Traffic Control	\$1,550.00
Soil Cutting Contaminants Testing	\$2,205.00
Soil Cuttings (drums) disposal	\$5,600.00
<b>m) TOTAL SUBCONSULTANT'S COSTS</b>	<b>\$42,795.00</b>

<b>n) Total Other Direct Costs Including Subconsultants [(l) + (m)]</b>	<b>\$44,251.00</b>
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<b>TOTAL COST [(c) + (j) + (k) + (n)]</b>	<b>\$231,395.27</b>
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Prime Consultant  Subconsultant  2nd Tier Sub

Consultant **Earth Mechanics, Inc.**

Project No. \_\_\_\_\_ Contract No. TBD Date \_\_\_\_\_

**1. Calculate Average Hourly Rate for 1st year of the contract (Direct Labor Subtotal divided by total**

Direct Labor Subtotal	Total Hours		Avg Hourly	2 Year Contract
per Cost Proposal	per Cost Proposal		Rate	Duration
\$57,858.00	1,044	=	\$55.42	Year 1 Avg Hourly Rate

**2. Calculate hourly rate for all years (Increase the Average Hourly Rate for a year by proposed escalation %)**

	Avg Hourly Rate		Proposed Escalation			
Year 1	\$55.42	+	3%	=	\$57.08	Year 2 Avg Hourly Rate
Year 2	\$57.08	+	3%	=	\$58.79	Year 3 Avg Hourly Rate
Year 3	\$58.79	+	3%	=	\$60.56	Year 4 Avg Hourly Rate
Year 4	\$60.56	+	3%	=	\$62.38	Year 5 Avg Hourly Rate

**3. Calculate estimated hours per year (Multiply estimate % each year by total hours)**

	Estimated % Completed Each Year	*	Total Hours per Cost Proposal	=	Total Hours per Year	
Year 1	10.00%	*	1044.0	=	104.4	Estimated Hours Year 1
Year 2	80.00%	*	1044.0	=	835.2	Estimated Hours Year 2
Year 3	10.00%	*	1044.0	=	104.4	Estimated Hours Year 3
Year 4		*	1044.0	=	0.0	Estimated Hours Year 4
Year 5		*	1044.0	=	0.0	Estimated Hours Year 5
Total	100%		Total	=	1044.0	

**4. Calculate Total Costs including Escalation (Multiply Average Hourly Rate by the number of hours)**

	Avg Hourly Rate (calculated above)	*	Estimated hours (calculated above)	=	Cost per Year	
Year 1	\$55.42	*	104	=	\$5,785.80	Estimated Hours Year 1
Year 2	\$57.08	*	835	=	\$47,674.99	Estimated Hours Year 2
Year 3	\$58.79	*	104	=	\$6,138.16	Estimated Hours Year 3
Year 4	\$60.56	*	0	=	\$0.00	Estimated Hours Year 4
Year 5	\$62.38	*		=	\$0.00	Estimated Hours Year 5
	Total Direct Labor Cost with Escalation			=	\$59,598.95	
	Direct Labor Subtotal before Escalation			=	\$57,858.00	
	Estimated total of Direct Labor Salary Increase			=	\$1,740.95	Transfer to Page 1

**Avenue 50 Bridge Over CVSC**

Certification of Direct Costs:

I, the undersigned, certify to the best of my knowledge and belief that all direct costs identified on the cost proposal(s) in this contract are actual, reasonable, allowable, and allocable to the contract in accordance with the contract terms and the following requirements:

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2. Terms and conditions of the contract
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4. 48 Code of Federal Regulations Part 31 - Contract Cost Principles and Procedures
5. 23 Code of Federal Regulations Part 172 - Procurement, Management, and Administration of Engineering and Design Related Service
6. 48 Code of Federal Regulations Part 9904 - Cost Accounting Standards Board (when applicable)

All costs must be applied consistently and fairly to all contracts. All documentation of compliance must be retained in the project files and be in compliance with applicable federal and state requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement. Local governments are responsible for applying only cognizant agency approved or Caltrans accepted Indirect Cost Rate(s).

**Prime Consultant or Subconsultant Certifying:**

Name:	<u>Alahesh Thurairajah, PE, GE</u>	Title *:	<u>Principal</u>
Signature :		Date of Certification (mm/dd/yyyy):	<u>04/19/21</u>
Email:	<u><a href="mailto:A.Thurairajah@earthmech.com">A.Thurairajah@earthmech.com</a></u>	Phone Number:	<u>714-751-3826</u>
Address:	<u>17800 Newhope Street, Suite B, Fountain Valley, CA 92708</u>		

List services the Subconsultants are providing under the proposed contract:  
541330 - Geotechnical Engineering  
541380 - Laboratory Testing

**SCOPE OF WORK - ESTIMATED HOURS WORKSHEET**

Fully Loaded Hourly Rate (Direct Labor, overhead, and profit)		\$229.22	\$205.67	\$161.71	\$135.02	\$128.74	TOTAL HOURS	TOTAL COST without Labor Escalation	TOTAL COST with Labor Escalation	
TASKS	Task No	Staff Name	Alahesh Thuraiajah	Mike Kapuskar	Michael Hoshiyama	Jianmin Fang				Pratha Ragavan
		Staff Classification	Principal/PM	Senior Engineer	Sr. Project Geologist	Senior Technician	Senior Staff Engineer			
<b>1</b>	<b>Project Management Services</b>									
	1.1	Administration					0	\$0.00	\$0.00	
	1.2	Coordination and Meetings					0	\$0.00	\$0.00	
	1.3	Quality Assurance and Quality Control					0	\$0.00	\$0.00	
	1.4	Project Schedule					0	\$0.00	\$0.00	
	1.5	Risk Management					0	\$0.00	\$0.00	
	1.6	Project Budget, Cost Accounting and Reporting					0	\$0.00	\$0.00	
	1.7	Prepare Funding Applications					0	\$0.00	\$0.00	
<b>2</b>	<b>Draft Final Design Services (35% PS&amp;E)</b>									
	2.6	Geotechnical Design Report	180	280	196	188	200	1044	\$181,677.59	\$231,395.27
	<b>TOTAL HOURS</b>		<b>180</b>	<b>280</b>	<b>196</b>	<b>188</b>	<b>200</b>	<b>1,044</b>	<b>\$181,677.59</b>	<b>\$231,395.27</b>

Prime Consultant     Subconsultant     2nd Tier Sub

Consultant Michael Baker International, Inc.

Project No. TBD

Contract No. TBD

Date 4/19/2021

**DIRECT LABOR**

Classification/Title	Name	Hours	Hourly Rates	Total
Principal in Charge	Alan Ashimine	24	\$95.40	\$2,289.60
Project Manager	Brad Losey	117	\$93.63	\$10,954.71
Senior Engineer	Steve Giffen	220	\$72.16	\$15,875.20
Senior Engineer	Barb Vealey	284	\$64.22	\$18,238.48
Project Engineer	Dominic Stone	560	\$51.69	\$28,946.40
Project Engineer	Dan Price	364	\$40.21	\$14,636.44
Assistant Engineer	Samantha Carlson	868	\$35.66	\$30,952.88
Regulatory Specialist	Tim Tidwell	88	\$55.90	\$4,919.20
Senior Biologist	Tom Millington	8	\$56.19	\$449.52
		<b>2715</b>		<b>\$135,855.87</b>

**LABOR COSTS**

a) Subtotal Direct Labor Costs	\$135,855.87
b) Anticipated Salary Increases (see page 2 for sample)	\$6,826.76
<b>c) TOTAL DIRECT LABOR COSTS [(a) + (b)]</b>	<b>\$142,682.63</b>

**FRINGE BENEFITS**

d) Fringe Benefits	Rate: <u>45.14%</u>	<b>e) Total Fringe Benefits</b>
		[(c) x (d)]
		\$64,406.94

**INDIRECT COSTS**

f) Overhead	Rate: <u>53.42%</u>	g) Overhead [(c) x (f)]	\$76,221.06
h) General and Administrative	Rate: <u>50.23%</u>	i) Gen & Admin [(c) x (h)]	\$71,669.48
		<b>j) Total Indirect Costs [(e) + (g) + (i)]</b>	<b>\$212,297.48</b>

**FIXED FEE (Profit)**

q) Rate: <u>10.00%</u>	<b>k) TOTAL FIXED PROFIT [(c) + (j)] x (q)]</b>	<b>\$35,498.01</b>
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**I) OTHER DIRECT COSTS (ODC)**

Description	Unit(s)		Unit Cost	Total
Copy/Reprographics	20000	LS	\$0.25	\$5,000.00
Mileage	2500	Miles	\$0.56	\$1,400.00
				\$0.00
				<b>\$7,900.00</b>

**m) Subconsultants:**

<b>n) Total Other Direct Costs Including Subconsultants [(l) + (m)]</b>	<b>\$7,900.00</b>
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<b>TOTAL COST [(c) + (j) + (k) + (n)]</b>	<b>\$398,378.12</b>
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Prime Consultant  Subconsultant  2nd Tier Sub

Consultant Michael Baker International, Inc.

Project No. TBD

Contract No. TBD

Date 4/19/2021

**1. Calculate Average Hourly Rate for 1st year of the contract (Direct Labor Subtotal divided by total**

Direct Labor Subtotal	Total Hours		Avg Hourly	2 Year Contract
per Cost Proposal	per Cost Proposal		Rate	Duration
\$135,855.87	2,715	=	\$50.04	Year 1 Avg Hourly Rate

**2. Calculate hourly rate for all years (Increase the Average Hourly Rate for a year by proposed escalation %)**

	Avg Hourly Rate		Proposed Escalation		
Year 1	\$50.04	+	5%	=	\$52.54 Year 2 Avg Hourly Rate

**3. Calculate estimated hours per year (Multiply estimate % each year by total hours)**

	Estimated % Completed Each Year	*	Total Hours per Cost Proposal	=	Total Hours per Year	
Year 1	10.00%	*	2715.0	=	271.5	Estimated Hours Year 1
Year 2	80.00%	*	2715.0	=	2172.0	Estimated Hours Year 2
Year 3	10.00%	*	2715.0	=	271.5	Estimated Hours Year 3
Year 4	0.00%	*	2715.0	=	0.0	Estimated Hours Year 4
Year 5	0.00%	*	2715.0	=	0.0	Estimated Hours Year 5
Total	100%		Total	=	2715.0	

**4. Calculate Total Costs including Escalation (Multiply Average Hourly Rate by the number of hours)**

	Avg Hourly Rate (calculated above)	*	Estimated hours (calculated above)	=	Cost per Year	
Year 1	\$50.04	*	272	=	\$13,585.59	Estimated Hours Year 1
Year 2	\$52.54	*	2172	=	\$114,118.93	Estimated Hours Year 2
Year 3	\$55.17	*	272	=	\$14,978.11	Estimated Hours Year 3
Year 4	\$57.93	*	0	=	\$0.00	Estimated Hours Year 4
Year 5	\$60.82	*		=	\$0.00	Estimated Hours Year 5
	Total Direct Labor Cost with Escalation			=	\$142,682.63	
	Direct Labor Subtotal before Escalation			=	\$135,855.87	
	Estimated total of Direct Labor Salary Increase			=	<b>\$6,826.76</b>	Transfer to Page 1

**Avenue 50 Bridge Over CVSC**

Certification of Direct Costs:

I, the undersigned, certify to the best of my knowledge and belief that all direct costs identified on the cost proposal(s) in this contract are actual, reasonable, allowable, and allocable to the contract in accordance with the contract terms and the following requirements:

1. Generally Accepted Accounting Principles (GAAP)
2. Terms and conditions of the contract
3. Title 23 United States Code Section 112 - Letting of Contracts
4. 48 Code of Federal Regulations Part 31 - Contract Cost Principles and Procedures
5. 23 Code of Federal Regulations Part 172 - Procurement, Management, and Administration of Engineering and Design Related Service
6. 48 Code of Federal Regulations Part 9904 - Cost Accounting Standards Board (when applicable)

All costs must be applied consistently and fairly to all contracts. All documentation of compliance must be retained in the project files and be in compliance with applicable federal and state requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement. Local governments are responsible for applying only cognizant agency approved or Caltrans accepted Indirect Cost Rate(s).

**Prime Consultant or Subconsultant Certifying:**

Name: \_\_\_\_\_ Title \*:

List services the Subconsultants are providing under the proposed contract:

**SCOPE OF WORK - ESTIMATED HOURS WORKSHEET**

Fully Loaded Hourly Rate (Direct Labor, overhead, and profit)		\$261.08	\$256.24	\$197.48	\$175.75	\$141.46	\$110.04	\$97.59	\$152.98	\$207.44	\$115.24	\$91.24	\$153.77	TOTAL HOURS	TOTAL FEE without Labor Escalation	TOTAL FEE with Labor Escalation	
TASKS	Task No.	Staff Name	Alan Ashimine	Brad Losey	Steve Giffen	Barb Vealey	Dominic Stone	Dan Price	Samantha Carlson	Tim Tidwell	Chris Johnson	Ashley Spencer	Ryan Phaneuf				Tom Millington
		Staff Classification	Principal in Charge	Project Manager	Senior Engineer	Senior Engineer	Project Engineer	Project Engineer	Assistant Engineer	Regulatory Specialist	Natural Resources Manager	Biologist	GIS Analyst				Senior Biologist
1	<b>Project Management Services</b>																
2	<b>Draft Final Design Services (35% PS&amp;E)</b>																
	2.4a	Draft Drainage Reports - Bridge Hydraulics Report		24	120			220						364	\$54,056.52	\$57,921.47	
	2.4b	Draft Drainage Reports - Roadway Drainage Report		12		32	60	40	80					224	\$29,395.33	\$31,497.05	
	2.4c	Draft Drainage Reports - City WQMP		8		20	40		60					128	\$17,078.70	\$18,299.79	
4	<b>Permits/Agreements</b>																
	4.1	Clean Water Act Section 404 Pre-Construction Notification	8							40	22	40	16	126	\$18,841.13	\$20,188.23	
	4.2	Clean Water Act Section 401 Water Quality Certification	8							24	8	32	12	84	\$12,202.35	\$13,074.80	
	4.3	California Fish and Wildlife 1602 Streambed Alteration	8							24	8	32	12	92	\$13,432.55	\$14,392.95	
	4.4	CVWD Encroachment Permit												0	\$0.00	\$0.00	
5	<b>Draft Final Design Services – 65% PS&amp;E Submittal</b>																
	5.6	Drainage Plans		8		60	100		160					328	\$42,355.31	\$45,383.64	
	5.15	Temporary Water Pollution and Erosion Control Plans		8		40	60		80					188	\$25,374.70	\$27,188.95	
	5.20	Cost Estimates		2			16		40					58	\$6,679.44	\$7,157.01	
	5.21	Specifications		2	24		12							38	\$6,949.50	\$7,446.37	
	5.22a	Final Drainage Reports - Bridge Hydraulics Report		8	40			80						128	\$18,752.46	\$20,093.22	
	5.22b	Final Drainage Reports - Roadway Drainage Report		8		24	40	24	60					156	\$20,422.71	\$21,882.90	
	5.22c	Final Drainage Reports - City WQMP		2		16	24		40					82	\$10,623.12	\$11,382.65	
6	<b>Draft Final Design Services – 95% PS&amp;E Submittal</b>																
	6.6	Drainage Plans		8		32	80		120					240	\$30,701.50	\$32,896.61	
	6.15	Temporary Water Pollution and Erosion Control Plans		8		32	40		80					160	\$21,139.51	\$22,650.94	
	6.19	Cost Estimates		2			12		24					38	\$4,552.16	\$4,877.63	
	6.20	Specifications		2	20		4							26	\$5,027.90	\$5,387.39	
7	<b>Final Design Services – 100% PS&amp;E Submittal</b>																
	7.6	Drainage Plans		8		20	40		60					128	\$17,078.70	\$18,299.79	
	7.15	Temporary Water Pollution and Erosion Control Plans		4		8	20		40					72	\$9,163.75	\$9,818.94	
	7.19	Cost Estimates		1			12		24					37	\$4,295.92	\$4,603.07	
	7.20	Specifications		2	16									18	\$3,672.15	\$3,934.70	
8	<b>Resident Engineer File and Supplemental Materials</b>																
9	<b>Contract Bid Documents (Ready-To-List)</b>																
	9.1	Assemble Bid Package												0	\$0.00	\$0.00	
<b>TOTAL HOURS</b>			<b>24</b>	<b>117</b>	<b>220</b>	<b>284</b>	<b>560</b>	<b>364</b>	<b>868</b>	<b>88</b>	<b>38</b>	<b>104</b>	<b>40</b>	<b>8</b>	<b>2,715</b>	<b>\$371,795.40</b>	<b>\$398,378.12</b>

**Avenue 50 Bridge Over CVSC**

Prime Consultant     Subconsultant     Tier Sub

Consultant: NV5, Inc.

Contract No.

TBD

Date: 31-Mar-21

**DIRECT LABOR**

Classification/Title	Name	Hours	Hourly Rate	Total
Bridge Project Manager	Jack Abcarius	36	\$95.84	\$3,450.15
Sr. Bridge Engineer	C. Daniel Sun	460	\$72.54	\$33,368.40
Survey Manager	Jay Fahrion	96	\$67.03	\$6,434.88
Senior Surveyor	Doug Boyle	300	\$39.78	\$11,934.00
CADD Tech III	Dave Schilke	120	\$47.17	\$5,660.40
Survey Party Chief**	Joshua Wehe	88	\$73.86	\$6,499.68
Survey Chainman**	Phil Stuart	88	\$73.21	\$6,442.48
Traffic Manager	James Miller	13	\$76.92	\$999.96
Senior Traffic Project Engineer	Chris Cate	50	\$55.00	\$2,750.00
Traffic Engineer II	Nicole Harmon	84	\$31.73	\$2,665.32
Civil Manager	Vickie Bridenstine	38	\$69.22	\$2,630.36
Senior Project Engineer	Scott Vinton	51	\$74.69	\$3,809.19
Project Engineer I	Miguel Gonzalez	67	\$43.82	\$2,935.94
Engineer II	Aaron Gonzalez	54	\$35.33	\$1,907.82
		<b>1,491</b>		<b>\$89,580.76</b>

**LABOR COSTS**

a) Subtotal Direct Labor Costs \$89,580.76  
 b) Anticipated Salary Increases (see page 2 for sample) \$1,612.45  
**c) TOTAL DIRECT LABOR COSTS [(a) + (b)] \$91,193.21**

**FRINGE BENEFITS**

d) Fringe Benefits (Rate:           )      e) Total Fringe Benefits  
 [(c) x (d)] \$0.00

**INDIRECT COSTS**

f) Overhead (Rate: 138.15%)      g) Overhead [(c) x (f)] #####  
 h) General and Administrative (Rate:           )      i) Gen & Admin [(c) x (h)] \$0.00  
**j) Total Indirect Costs [(e) + (g) + (i)] \$125,983.42**

**FIXED FEE (Profit)**

q) (Rate: 10.00%)      k) TOTAL FIXED PROFIT [(c) + (j)] x (q) \$21,717.66

**I) OTHER DIRECT COSTS (ODC)**

Description	Unit(s)	Unit Cost	Total
Preliminary Title Reports (9)	9 Each	\$750.00	\$6,750.00
Riv. Co. Record of Survey Fee	1 Each	\$800.00	\$800.00
Mileage	Miles		\$0.00
			\$0.00
<b>I) TOTAL OTHER DIRECT COSTS</b>			<b>\$7,550.00</b>

**m) Subconsultants:**

**m) TOTAL SUBCONSULTANT'S COST \$0.00**

**n) Total Other Direct Costs Including Subconsultants [(l) + (m)] \$7,550.00**

**TOTAL COST [(c) + (j) + (k) + (n)] \$246,444.30**

Prime Consultant  Subconsultant  3rd Tier Sub

Consultant **NV5, Inc.**  
 Project No. \_\_\_\_\_ Contract No. TBD Date 3/31/2021

**1. Calculate Average Hourly Rate for 1st year of the contract (Direct Labor Subtotal divided by**

Direct Labor <u>Subtotal</u>	Total Hours		Avg Hourly	2 Year Contract
per Cost Proposal	per Cost Proposal		Rate	Duration
\$89,580.76	1,491	=	\$60.08	Year 1 Avg Hourly Rate

**2. Calculate hourly rate for all years (Increase the Average Hourly Rate for a year by proposed escalation %)**

	Avg Hourly Rate		Proposed Escalation		
Year 1	\$60.08	+	3%	=	\$61.88 Year 2 Avg Hourly Rate

**3. Calculate estimated hours per year (Multiply estimate % each year by total hours)**

	Estimated % Completed Each Year	*	Total Hours per Cost Proposal	=	Total Hours per Year	
Year 1	40.00%	*	1491.0	=	596.4	Estimated Hours Year 1
Year 2	60.00%	*	1491.0	=	894.6	Estimated Hours Year 2
Year 3		*	1491.0	=	0.0	Estimated Hours Year 3
Year 4		*	1491.0	=	0.0	Estimated Hours Year 4
Year 5		*	1491.0	=	0.0	Estimated Hours Year 5
Total	100%		Total	=	1491.0	

**4. Calculate Total Costs including Escalation (Multiply Average Hourly Rate by the number of hours)**

	Avg Hourly Rate (calculated above)	*	Estimated hours (calculated above)	=	Cost per Year	
Year 1	\$60.08	*	596	=	#####	Estimated Hours Year 1
Year 2	\$61.88	*	895	=	#####	Estimated Hours Year 2
Year 3	\$63.74	*	0	=	\$0.00	Estimated Hours Year 3
Year 4	\$65.65	*	0	=	\$0.00	Estimated Hours Year 4
Year 5	\$67.62	*		=	\$0.00	Estimated Hours Year 5
	Total Direct Labor Cost with Escalation			=	#####	
	Direct Labor Subtotal before Escalation			=	#####	
	Estimated total of Direct Labor Salary Increase			=	\$1,612.45	Transfer to Page 1

**Avenue 50 Bridge Over CVSC**

Certification of Direct Costs:

I, the undersigned, certify to the best of my knowledge and belief that all direct costs identified on the cost proposal(s) in this contract are actual, reasonable, allowable, and allocable to the contract in accordance with the contract terms and the following requirements:

1. Generally Accepted Accounting Principles (GAAP)
2. Terms and conditions of the contract
3. Title 23 United States Code Section 112 - Letting of Contracts
4. 48 Code of Federal Regulations Part 31 - Contract Cost Principles and Procedures
5. 23 Code of Federal Regulations Part 172 - Procurement, Management, and Administration of Engineering and Design Related Service
6. 48 Code of Federal Regulations Part 9904 - Cost Accounting Standards Board (when applicable)

All costs must be applied consistently and fairly to all contracts. All documentation of compliance must be retained in the project files and be in compliance with applicable federal and state requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement. Local governments are responsible for applying only cognizant agency approved or Caltrans accepted Indirect Cost Rate(s).

**Prime Consultant or Subconsultant Certifying:**

Name: <u>Carmen C. Kasner</u>	Title *: _____	Regional Managing Director
Signature : _____	Date of Certification (mm/dd/yyyy): _____	
Email: <u><a href="mailto:Carmen.Kasner@NV5.com">Carmen.Kasner@NV5.com</a></u>	Phone Number: <u>58-385-213</u>	
Address: <u>15092 Avenue of Science, Suite 200, SD, CA 92128</u>		

List services the Subconsultants are providing under the proposed contract:

Independent Check of Bridge Design & Details

**SCOPE OF WORK - ESTIMATED HOURS WORKSHEET**

		Fully Loaded Hourly Rate (Direct Labor, overhead, and profit)	\$251.06	\$190.03	\$175.60	\$104.21	\$123.57	\$193.49	\$191.78	\$201.50	\$144.08	\$83.12	\$181.33	\$195.66	\$114.79	\$92.55	TOTAL HOURS	TOTAL COST without Labor Escalation	TOTAL COST with Labor Escalation
TASKS	Task No.	Staff Name	Jack Abcarius	C. Daniel Sun	Jay Fahrion	Doug Boyle	Dave Schilke	Joshua Wehe	Phil Stuart	James Miller	Chris Cate	Nicole Harmon	Vickie Bridenstine	Scott Vinton	Miguel Gonzalez	Aaron Gonzalez			
		Staff Classification	Bridge Project Manager	Sr. Bridge Engineer	Survey Manager	Senior Surveyor	CADD Tech III	Survey Party Chief**	Survey Chainman**	Traffic Manager	Senior Traffic Project Engineer	Traffic Engineer II	Civil Manager	Senior Project Engineer	Project Engineer I	Engineer II			
<b>1</b>	<b>Project Management Services</b>																		
	1.1	Administration	4														4	\$1,004.24	\$1,053.58
	1.3	Quality Assurance and Quality Control	8		20												28	\$5,520.39	\$5,791.59
<b>2</b>	<b>Draft Final Design Services (35% PS&amp;E)</b>																		
	2.1	Surveys and Mapping			36	110	20	88	88								342	\$54,159.80	\$56,820.48
	2.8.2	Prepare Legal Descriptions and Plat Maps			40	190	100										330	\$39,180.53	\$41,105.34
<b>3</b>	<b>Right-Of-Way Acquisition Services</b>																		
<b>4</b>	<b>Permits/Agreements</b>																		
<b>5</b>	<b>Draft Final Design Services – 65% PS&amp;E Submittal</b>																		
	5.7	Irrigation Lateral and Tile Drain System											18	25	37	30	110	\$15,179.43	\$15,925.14
	5.14	Traffic Signal and Street Lighting Plans (Phase 1)								5	16	24					45	\$5,307.73	\$5,568.48
	5.18	Bridge Independent Check	24	460													484	\$93,438.99	\$98,029.32
<b>6</b>	<b>Draft Final Design Services – 95% PS&amp;E Submittal</b>																		
	6.7	Irrigation Lateral and Tile Drain System											10	16	20	16	62	\$8,720.61	\$9,149.02
	6.14	Traffic Signal and Street Lighting Plans (Phase 1)								4	22	36					62	\$6,968.16	\$7,310.49
<b>7</b>	<b>Final Design Services – 100% PS&amp;E Submittal</b>																		
	7.7	Irrigation Lateral and Tile Drain System											10	10	10	8	38	\$5,658.29	\$5,936.26
	7.14	Traffic Signal and Street Lighting Plans (Phase 1)								4	12	24					40	\$4,529.90	\$4,752.44
<b>8</b>	<b>Resident Engineer File and Supplemental Materials</b>																		
	8.1	Resident Engineer's Pending File															0	\$0.00	\$0.00
	8.2	Supplemental PS&E Materials															0	\$0.00	\$0.00
<b>9</b>	<b>Contract Bid Documents (Ready-To-List)</b>																		
	9.1	Assemble Bid Package															0	\$0.00	\$0.00
<b>TOTAL HOURS</b>			<b>36</b>	<b>460</b>	<b>96</b>	<b>300</b>	<b>120</b>	<b>88</b>	<b>88</b>	<b>13</b>	<b>50</b>	<b>84</b>	<b>38</b>	<b>51</b>	<b>67</b>	<b>54</b>	<b>1,545</b>	<b>\$239,668.06</b>	<b>\$251,442.12</b>

**Avenue 50 Bridge Over CVSC**

Prime Consultant       Subconsultant       2nd Tier Sub

Consultant **Paragon Partners**

Project No. \_\_\_\_\_ Contract No. TBD Date 29-Mar-21

**DIRECT LABOR**

Classification/Title	Name	Hours	Hourly Rates	Total
Project Director/Corporate Broker	Mark Mendoza*	32	\$108.41	\$3,469.12
Project Manager	Dan Akins*	224	\$64.28	\$14,398.72
Senior Agent	Jennifer Goralski	164	\$45.91	\$7,529.24
Project Coordinator	Colin Valles	134	\$31.25	\$4,187.50
Quality Control/Compliance	Linda Tong	32	\$75.00	\$2,400.00
		-	\$0.00	\$0.00
		-	\$0.00	\$0.00
		<b>586</b>		<b>\$31,984.58</b>

**LABOR COSTS**

a) Subtotal Direct Labor Costs	\$31,984.58
b) Anticipated Salary Increases (see page 2 for sample)	\$239.88
<b>c) TOTAL DIRECT LABOR COSTS [(a) + (b)]</b>	<b>\$32,224.46</b>

**FRINGE BENEFITS**

d) Fringe Benefits (Rate: _____)	<b>e) Total Fringe Benefits</b>
	[(c) x (d)] <b>\$0.00</b>

**INDIRECT COSTS**

f) Overhead (Rate: <u>98.83%</u> )	g) Overhead [(c) x (f)]	\$31,847.44
h) General and Administrative (Rate: _____)	i) Gen & Admin [(c) x (h)]	\$0.00
	<b>j) Total Indirect Costs [(e) + (g) + (i)]</b>	<b>\$31,847.44</b>

**FIXED FEE (Profit)**

q) (Rate: <u>10.00%</u> )	<b>k) TOTAL FIXED PROFIT [(c) + (j)] x (q)</b>	<b>\$6,407.19</b>
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**l) OTHER DIRECT COSTS (ODC)**

Description	Unit(s)	Unit Cost	Total
Postage/Delivery	14 Each	\$25.00	\$350.00
Mileage	1800 Miles	0.560	\$1,008.00
<b>l) TOTAL OTHER DIRECT COSTS</b>			<b>\$1,358.00</b>

**m) Subconsultants:**

Appraisals	\$18,812.50
Appraisal Reviews	\$9,187.50
<b>m) TOTAL SUBCONSULTANT'S COSTS</b>	<b>\$28,000.00</b>

**n) Total Other Direct Costs Including Subconsultants [(l) + (m)]** **\$29,358.00**

**TOTAL COST [(c) + (j) + (k) + (n)]** **\$99,837.09**

Prime Consultant  Subconsultant  2nd Tier Sub

Consultant **Paragon Partners**

Project No. \_\_\_\_\_ Contract No. TBD Date \_\_\_\_\_

**1. Calculate Average Hourly Rate for 1st year of the contract (Direct Labor Subtotal divided by total**

Direct Labor Subtotal	Total Hours		Avg Hourly	2 Year Contract
per Cost Proposal	per Cost Proposal		Rate	Duration
\$31,984.58	586	=	\$54.58	Year 1 Avg Hourly Rate

**2. Calculate hourly rate for all years (Increase the Average Hourly Rate for a year by proposed escalation %)**

	Avg Hourly Rate		Proposed Escalation		
Year 1	\$54.58	+		=	\$54.58 Year 2 Avg Hourly Rate
Year 2	\$54.58	+	3%	=	\$56.22 Year 3 Avg Hourly Rate
Year 3	\$56.22	+	3%	=	\$57.91 Year 4 Avg Hourly Rate
Year 4	\$57.91	+	3%	=	\$59.64 Year 5 Avg Hourly Rate

**3. Calculate estimated hours per year (Multiply estimate % each year by total hours)**

	Estimated % Completed Each Year		Total Hours per Cost Proposal		Total Hours per Year	
Year 1	75.00%	*	586.0	=	439.5	Estimated Hours Year 1
Year 2	25.00%	*	586.0	=	146.5	Estimated Hours Year 2
Year 3		*	586.0	=	0.0	Estimated Hours Year 3
Year 4		*	586.0	=	0.0	Estimated Hours Year 4
Year 5		*	586.0	=	0.0	Estimated Hours Year 5
Total	100%		Total	=	586.0	

**4. Calculate Total Costs including Escalation (Multiply Average Hourly Rate by the number of hours)**

	Avg Hourly Rate (calculated above)		Estimated hours (calculated above)		Cost per Year	
Year 1	\$54.58	*	440	=	\$23,988.44	Estimated Hours Year 1
Year 2	\$56.22	*	147	=	\$8,236.03	Estimated Hours Year 2
Year 3	\$57.91	*	0	=	\$0.00	Estimated Hours Year 3
Year 4	\$59.64	*	0	=	\$0.00	Estimated Hours Year 4
Year 5		*		=	\$0.00	Estimated Hours Year 5
	Total Direct Labor Cost with Escalation			=	\$32,224.46	
	Direct Labor Subtotal before Escalation			=	\$31,984.58	
	Estimated total of Direct Labor Salary Increase			=	<b>\$239.88</b>	Transfer to Page 1



SCOPE OF WORK - ESTIMATED HOURS WORKSHEET

Fully Loaded Hourly Rate (Direct Labor, overhead, and profit)		\$237.11	\$140.59	\$100.41	\$68.35	\$164.03	TOTAL HOURS	TOTAL FULLY LOADED LABOR COST PER TASK	
TASKS	Task No	Staff Name	Mark Mendoza*	Dan Akins*	Jennifer Goralski	Colin Valles			Linda Tong
		Staff Classification	Project Director/Corporate Broker	Project Manager	Senior Acquisition Agent	Project Coordinator			QA/QC/Compliance
<b>1</b>	<b>Project Management Services</b>		<b>24</b>	<b>60</b>	<b>0</b>	<b>30</b>	<b>24</b>		
	1.1	Administration					0	\$0.00	
	1.2	Coordination and Meetings	12	60		30	102	\$13,331.04	
	1.3	Quality Assurance and Quality Control	12				36	\$6,782.12	
	1.4	Project Schedule					0	\$0.00	
	1.5	Prepare Funding Applications					0	\$0.00	
<b>2</b>	<b>Draft Final Design Services (PS&amp;E)</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		
<b>3</b>	<b>Right-Of-Way Acquisition Services</b>		<b>8</b>	<b>164</b>	<b>164</b>	<b>104</b>	<b>8</b>		
	4.1	4.1. Appraisal	4	8	8	24	44	\$4,516.77	
	4.2	4.2. Acquisition Service	4	156	156	80	404	\$45,324.51	
<b>TOTAL HOURS</b>			<b>32</b>	<b>224</b>	<b>164</b>	<b>134</b>	<b>32</b>	<b>\$69,954.43</b>	
<b>TOTAL LABOR COSTS</b>			<b>\$7,587.42</b>	<b>\$31,491.87</b>	<b>\$16,467.43</b>	<b>\$9,158.61</b>	<b>\$5,249.11</b>	<b>\$69,954.43</b>	

Total Escalations \$525  
 ODC \$29,358  
 AES - Grant Total \$99,837

**Avenue 50 Brideg Over CVSC**

Prime Consultant     Subconsultant     2nd Tier Sub

Consultant TranSystems

Project No. City Project No. ST-69 and ST-81    Contract No. TBD    Date 12-Apr-21

**DIRECT LABOR**

Classification/Title	Name	Hours	Hourly Rates	Total
Project Manager	Ayman Salama	392	\$95.00	\$37,240.00
Sr. Project Engineer	Andre Issa	1,080	\$71.20	\$76,896.00
Engineer II	Jaime Garcia	842	\$40.22	\$33,865.24
Engineer II	Shunji Jiang	840	\$39.38	\$33,079.20
Engineer II	Kevin Nguyen	840	\$40.38	\$33,919.20
Engineer I	Andre Castillo	840	\$32.00	\$26,880.00
Admin Assistant	Tracy Levine	160	\$33.44	\$5,350.40
		-		\$0.00
		<b>4,994</b>		<b>\$247,230.04</b>

**LABOR COSTS**

a) Subtotal Direct Labor Costs	\$247,230.04
b) Anticipated Salary Increases (see page 2 for sample)	\$7,439.15
<b>c) TOTAL DIRECT LABOR COSTS [(a) + (b)]</b>	<b>\$254,669.19</b>

**FRINGE BENEFITS**

d) Fringe Benefits (Rate: <u>53.18%</u> )	<b>e) Total Fringe Benefits</b>
	[(c) x (d)] \$135,433.08

**INDIRECT COSTS**

f) Overhead (Rate: <u>75.74%</u> )	g) Overhead [(c) x (f)]	\$192,886.45
h) General and Administrative (Rate: <u>20.55%</u> )	i) Gen & Admin [(c) x (h)]	\$52,334.52
	<b>j) Total Indirect Costs [(e) + (g) + (i)]</b>	<b>\$380,654.04</b>

**FIXED FEE (Profit)**

q) (Rate: <u>10.00%</u> )	<b>k) TOTAL FIXED PROFIT [(c) + (j)] x (q)</b>	<b>\$63,532.32</b>
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**l) OTHER DIRECT COSTS (ODC)**

Description	Unit(s)	Unit Cost	Total
Copy/Reprographics	5 Submittals	\$100.00	\$500.00
Mails	5 Each	\$50.00	\$250.00
Mileage	600 Miles	\$0.580	\$348.00
			\$0.00
	<b>l) TOTAL OTHER DIRECT COSTS</b>		<b>\$1,098.00</b>

**m) Subconsultants:**

	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
<b>m) TOTAL SUBCONSULTANT'S COSTS</b>	<b>\$0.00</b>

**n) Total Other Direct Costs Including Subconsultants [(l) + (m)]** \$1,098.00

**TOTAL COST [(c) + (j) + (k) + (n)]** **\$699,953.56**

Prime Consultant  Subconsultant  2nd Tier Sub

Consultant **TranSystems**

Project No. No. ST-69 and ST-81

Contract No. TBD

Date 12-Apr-21

**1. Calculate Average Hourly Rate for 1st year of the contract (Direct Labor Subtotal divided by total**

Direct Labor <u>Subtotal</u>	Total Hours		Avg Hourly	2 Year Contract
per Cost Proposal	per Cost Proposal		Rate	Duration
\$247,230.04	4,994	=	\$49.51	Year 1 Avg Hourly Rate

**2. Calculate hourly rate for all years (Increase the Average Hourly Rate for a year by proposed escalation %)**

	Avg Hourly Rate		Proposed Escalation		
Year 1	\$49.51	+	3%	=	\$50.99 Year 2 Avg Hourly Rate
Year 2	\$50.99	+	3%	=	\$52.52 Year 3 Avg Hourly Rate
Year 3	\$52.52	+	3%	=	\$54.10 Year 4 Avg Hourly Rate
Year 4	\$54.10	+	3%	=	\$55.72 Year 5 Avg Hourly Rate

**3. Calculate estimated hours per year (Multiply estimate % each year by total hours)**

	Estimated % Completed Each Year		Total Hours per Cost Proposal		Total Hours per Year	
Year 1	10.00%	*	4994.0	=	499.4	Estimated Hours Year 1
Year 2	80.00%	*	4994.0	=	3995.2	Estimated Hours Year 2
Year 3	10.00%	*	4994.0	=	499.4	Estimated Hours Year 3
Year 4		*	4994.0	=	0.0	Estimated Hours Year 4
Year 5		*	4994.0	=	0.0	Estimated Hours Year 5
Total	100%		Total	=	4994.0	

**4. Calculate Total Costs including Escalation (Multiply Average Hourly Rate by the number of hours)**

Avg Hourly Rate	Estimated hours	Cost per Year
(calculated above)	(calculated above)	

**Avenue 50 Bridge Over CVSC**

Certification of Direct Costs:

I, the undersigned, certify to the best of my knowledge and belief that all direct costs identified on the cost proposal(s) in this contract are actual, reasonable, allowable, and allocable to the contract in accordance with the contract terms and the following requirements:

1. Generally Accepted Accounting Principles (GAAP)
2. Terms and conditions of the contract
3. Title 23 United States Code Section 112 - Letting of Contracts
4. 48 Code of Federal Regulations Part 31 - Contract Cost Principles and Procedures
5. 23 Code of Federal Regulations Part 172 - Procurement, Management, and Administration of Engineering and Design Related Service
6. 48 Code of Federal Regulations Part 9904 - Cost Accounting Standards Board (when applicable)

All costs must be applied consistently and fairly to all contracts. All documentation of compliance must be retained in the project files and be in compliance with applicable federal and state requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement. Local governments are responsible for applying only cognizant agency approved or Caltrans accepted Indirect Cost Rate(s).

**Prime Consultant or Subconsultant Certifying:**

Name:	<u>Ayman Salama</u>	Title *:	<u>Principal</u>
Signature :	_____	Date of Certification (mm/dd/yyyy):	_____
Email:	<u><a href="mailto:aesalama@transystems.com">aesalama@transystems.com</a></u>	Phone Number:	<u>949-798-9385</u>
Address:	<u>6 Hutton Centre Dr, Suite 800, Santa Ana, CA 92707</u>		

List services the Subconsultants are providing under the proposed contract:

**SCOPE OF WORK - ESTIMATED HOURS WORKSHEET**

Fully Loaded Hourly Rate (Direct Labor, overhead, and profit)		\$183.65	\$137.64	\$77.75	\$76.13	\$78.06	\$61.86	\$64.64	TOTAL HOURS	TOTAL COST without Labor Escalation	TOTAL COST with Labor Escalation	
TASKS	Task No	Staff Name	Ayman Salama	Andre Issa	Jaime Garcia	Shunji Jiang	Kevin Nguyen	Andre Castillo				Tracy Levine
		Staff Classification	Project Manager	Sr. Project Engineer	Engineer II	Engineer II	Engineer II	Engineer I				Admin Assistant
<b>1</b>	<b>Project Management Services</b>											
	1.1	Administration	32	60						92	\$14,135.12	\$14,560.45
	1.2	Coordination and Meetings	32	60						92	\$14,135.12	\$14,560.45
	1.3	Quality Assurance and Quality Control	32	60						92	\$14,135.12	\$14,560.45
	1.4	Project Schedule	32	60						92	\$14,135.12	\$14,560.45
	1.6	Project Budget, Cost Accounting and Reporting							160	160	\$10,343.07	\$10,654.30
<b>2</b>	<b>Draft Final Design Services (35% PS&amp;E)</b>											
	2.5	Structures Type Selection Report, GP, & Estimate	80	160	160	160	160	160		880	\$83,721.97	\$86,241.17
<b>5</b>	<b>Draft Final Design Services – 65% PS&amp;E Submittal</b>											
	5.17	Bridge Plans	80	280	280	280	280	280		1480	\$135,494.56	
<b>6</b>	<b>Draft Final Design Services – 95% PS&amp;E Submittal</b>											
	6.17	Bridge Plans	80	280	280	280	280	280		1480	\$135,494.56	
	6.18	Cost Estimates								0	\$0.00	\$0.00
	6.19	Specifications								0	\$0.00	\$0.00
<b>7</b>	<b>Final Design Services – 100% PS&amp;E Submittal</b>											
	7.17	Bridge Plans	24	120	120	120	120	120		624	\$56,180.14	\$57,870.60
	7.18	Cost Estimates								0	\$0.00	\$0.00
	7.19	Specifications								0	\$0.00	\$0.00
<b>8</b>	<b>Resident Engineer File and Supplemental Materials</b>											
	<b>TOTAL HOURS</b>		<b>392</b>	<b>1,080</b>	<b>842</b>	<b>840</b>	<b>840</b>	<b>840</b>	<b>160</b>	<b>4,994</b>	<b>\$477,930.28</b>	<b>\$492,311.20</b>

Total Escalations \$14,381  
**Total \$492,311.20**