SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
David Evans and Associates	**Landscape Arch.**	**Phase I**
PROJECT: **Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St**		DATE: **March 18, 2019**

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Robert D. Vasquez	Senior Project Manager			$71.59	
Paul Perea	Project Surveyor			$59.43	
Dave Crosswhite	Project Surveyor			$59.74	
John "Jay" Bentley	Survey Analysist			$49.73	
Bryan Hernandez	Survey CADD			$36.77	
Dolores Moriera	Project Coordinator			$33.70	
Chris Dominquez	Survey Party Chief			$53.61	
Robert Muro	Survey Instrumentman			$48.36	
Kim S. Rhodes	Landscape Architect/QAQC	15	@	$67.90	$1,018.50
Todd Holmes	Senior Landscape Architect	77	@	$52.00	$4,004.00
Monique Quintero	Landscape Designer	77	@	$24.00	$1,848.00
Danny Wang	Senior Landscape Designer	8	@	$35.00	$280.00
Kevin Perez	Irrigation Designer	6	@	$28.00	$168.00
Jon-sen Oen	Senior Irrigation Designer	15	@	$39.00	$585.00
Marga Rosso	Project Administrator			$32.20	
	TOTAL HOURS	**198**		AL DIRECT LABOR	**$7,903.50**

MULTIPLIERS

ESCALATION @		(of Direct Labor)	
OVERHEAD @	113.31%	(of Direct Labor + Escalation)	$8,955.46
PAYROLL ADDITIVES @	56.20%	(of Direct Labor + Escalation)	$4,441.77
PROFIT (FIXED FEE)	10.0%		$2,130.07
		TOTAL MULTIPLIERS	**$15,527.30**

OTHER DIRECT COSTS

••• Billed at Actual Cost •••

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction	1	@	$600.00	$600.00
Mailing and Overnight Delivery	1	@	$300.00	$300.00
Transportation	1	@	$600.00	$600.00
			TOTAL ODC'S	**$1,500.00**

TOTAL **$24,930.80**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
David Evans and Associates	**Landscape Arch.**	**Phase II**
PROJECT: **Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St**		DATE: **March 18, 2019**

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Robert D. Vasquez	Senior Project Manager			$71.59	
Paul Perea	Project Surveyor			$59.43	
Dave Crosswhite	Project Surveyor			$59.74	
John "Jay" Bentley	Survey Analysist			$49.73	
Bryan Hernandez	Survey CADD			$36.77	
Dolores Moriera	Project Coordinator			$33.70	
Chris Dominquez	Survey Party Chief			$53.61	
Robert Muro	Survey Instrumentman			$48.36	
Kim S. Rhodes	Landscape Architect/QAQC	12	@	$67.90	$814.80
Todd Holmes	Senior Landscape Architect	76	@	$52.00	$3,952.00
Monique Quintero	Landscape Designer	110	@	$24.00	$2,640.00
Danny Wang	Senior Landscape Designer	30	@	$35.00	$1,050.00
Kevin Perez	Irrigation Designer	82	@	$28.00	$2,296.00
Jon-sen Oen	Senior Irrigation Designer	84	@	$39.00	$3,276.00
Marga Rosso	Project Administrator	20	@	$32.20	$644.00
	TOTAL HOURS	**414**		AL DIRECT LABOR	**$14,672.80**

MULTIPLIERS

ESCALATION @	3.50%	(of Direct Labor)	$513.55
OVERHEAD @	113.31%	(of Direct Labor + Escalation)	$17,207.65
PAYROLL ADDITIVES @	56.20%	(of Direct Labor + Escalation)	$8,534.73
PROFIT (FIXED FEE)	10.0%		$4,092.87
		TOTAL MULTIPLIERS	**$30,348.80**

OTHER DIRECT COSTS

••• Billed at Actual Cost •••

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction			$600.00	
Mailing and Overnight Delivery			$300.00	
Transportation			$600.00	

TOTAL ODC'S

TOTAL **$45,021.60**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
David Evans and Associates	**Landscape Arch.**	**Phase III**
PROJECT: **Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St**		DATE: **March 18, 2019**

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Robert D. Vasquez	Senior Project Manager		$71.59	
Paul Perea	Project Surveyor		$59.43	
Dave Crosswhite	Project Surveyor		$59.74	
John "Jay" Bentley	Survey Analysist		$49.73	
Bryan Hernandez	Survey CADD		$36.77	
Dolores Moriera	Project Coordinator		$33.70	
Chris Dominquez	Survey Party Chief		$53.61	
Robert Muro	Survey Instrumentman		$48.36	
Kim S. Rhodes	Landscape Architect/QAQC		$67.90	
Todd Holmes	Senior Landscape Architect	8	@ $52.00	$416.00
Monique Quintero	Landscape Designer		$24.00	
Danny Wang	Senior Landscape Designer		$35.00	
Kevin Perez	Irrigation Designer		$28.00	
Jon-sen Oen	Senior Irrigation Designer		$39.00	
Marga Rosso	Project Administrator		$32.20	
	TOTAL HOURS	**8**	AL DIRECT LABOR	**$416.00**

MULTIPLIERS

ESCALATION @	3.50%	(of Direct Labor)	$14.56
OVERHEAD @	113.31%	(of Direct Labor + Escalation)	$487.87
PAYROLL ADDITIVES @	56.20%	(of Direct Labor + Escalation)	$241.97
PROFIT (FIXED FEE)	10.0%		$116.04
		TOTAL MULTIPLIERS	**$860.44**

OTHER DIRECT COSTS

••• Billed at Actual Cost •••

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction			$600.00	
Mailing and Overnight Delivery			$300.00	
Transportation			$600.00	

TOTAL ODC'S

TOTAL **$1,276.44**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
David Evans and Associates	**Landscape Arch.**	**Phase IV**
PROJECT: **Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St**		DATE: **March 18, 2019**

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Robert D. Vasquez	Senior Project Manager			$71.59	
Paul Perea	Project Surveyor			$59.43	
Dave Crosswhite	Project Surveyor			$59.74	
John "Jay" Bentley	Survey Analysist			$49.73	
Bryan Hernandez	Survey CADD			$36.77	
Dolores Moriera	Project Coordinator			$33.70	
Chris Dominquez	Survey Party Chief			$53.61	
Robert Muro	Survey Instrumentman			$48.36	
Kim S. Rhodes	Landscape Architect/QAQC			$67.90	
Todd Holmes	Senior Landscape Architect	22	@	$52.00	$1,144.00
Monique Quintero	Landscape Designer	18	@	$24.00	$432.00
Danny Wang	Senior Landscape Designer	4	@	$35.00	$140.00
Kevin Perez	Irrigation Designer	16	@	$28.00	$448.00
Jon-sen Oen	Senior Irrigation Designer	24		$39.00	$936.00
Marga Rosso	Project Administrator	4	@	$32.20	$128.80
	TOTAL HOURS	**88**		TAL DIRECT LABOR	**$3,228.80**

MULTIPLIERS

ESCALATION @	3.50%	(of Direct Labor)	$113.01
OVERHEAD @	113.31%	(of Direct Labor + Escalation)	$3,786.60
PAYROLL ADDITIVES @	56.20%	(of Direct Labor + Escalation)	$1,878.10
PROFIT (FIXED FEE)	10.0%		$900.65
		TOTAL MULTIPLIERS	**$6,678.36**

OTHER DIRECT COSTS

••• Billed at Actual Cost •••

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction			$600.00	
Mailing and Overnight Delivery			$300.00	
Transportation			$600.00	

TOTAL ODC'S

TOTAL **$9,907.16**

SUBCONSULTANT MANHOUR WORKSHEET SUMMARY

COMPANY:	SCOPE OF WORK:	PHASE:
David Evans and Associates	**Landscape Arch.**	**All Phases**
PROJECT: **Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St**		DATE: **March 18, 2019**

TASK	SENIOR PROJECT MANAGER	PROJECT SURVEYOR	PROJECT SURVEYOR	SURVEY ANALYSIST	SURVEY CADD	PROJECT COORDINATOR	SURVEY PARTY CHIEF	SURVEY INSTRUMENTMAN	LANDSCAPE ARCHITECT/QA/QC	SENIOR LANDSCAPE ARCHITECT	LANDSCAPE DESIGNER	SENIOR LANDSCAPE DESIGNER	IRRIGATION DESIGNER	PROJECT ADMINISTRATOR	HOURS
	$212.24	$176.19	$177.11	$147.43	$109.01	$99.91	$158.93	$143.37	$201.30	$154.16	$71.15	$103.76	$83.01	$95.46	
PHASE TOTALS									**27**	**183**	**205**	**42**	**104**	**24**	**585**
PHASE I									15	77	77	8	6		183
PHASE II									12	76	110	30	82	20	330
PHASE III										8					8
PHASE IV										22	18	4	16	4	64

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
David Evans and Associates	Landscape Arch.	Phase I
PROJECT: Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St		DATE: March 18, 2019

TASK	SENIOR PROJECT MANAGER	PROJECT SURVEYOR	PROJECT SURVEYOR	SURVEY ANALYSIST	SURVEY CADD	PROJECT COORDINATOR	SURVEY PARTY CHIEF	SURVEY INSTRUMENTMAN	LANDSCAPE ARCHITECT/QAQC	SENIOR LANDSCAPE ARCHITECT	LANDSCAPE DESIGNER	SENIOR LANDSCAPE DESIGNER	IRRIGATION DESIGNER	SENIOR IRRIGATION DESIGNER	PROJECT ADMINISTRATOR	HOURS	COST
	$212.24	$176.19	$177.11	$147.43	$109.01	$99.91	$158.93	$143.37	$201.30	$154.16	$71.15	$103.76	$83.01	$115.62	$95.46		
Total Manhours									15	77	77	8	6	15		198	
1.0 PROJECT MANAGEMENT																	
1.1 Project Management																	
1.2 Project Team Meetings																	
1.3 Quality Control and Quality Assurance																	
2.0 RESEARCH AND DATA GATHERING																	
2.1 Collect and Review Existing Information									2	8				4		14	$ 1,636
2.2 Conduct Field Review										5	5			5		15	$ 1,127
3.0 PRELIMINARY ENGINEERING																	
3.1 Preliminary Utility Mapping																	
3.2 Permits (By County)																	
3.3 Survey and Right of Way Mapping																	
3.4 Right-of-Way Requirements Map																	
3.5 Geometric Approval Drawings									8	36	24	4				72	$ 9,283
3.6 Preliminary Drainage Engineering																	
3.7 Advisory and Mandatory Fact Sheets																	
3.8 Engineer's Estimate									1	4	8		6	2		21	$ 1,885
3.9 Medians north of Citrus Prelim Engineering									4	24	40	4		4		76	$ 7,766
4.0 ENVIRONMENTAL CLEARANCE / TECHNICAL REPORT																	
4.1 Environmental Management / Meetings																	
4.1.1 Environmental Management																	
4.1.2 Environmental Meetings																	
4.2 Technical Studies																	
4.2.1 Hazardous Waste (Initial Site Assessment)																	
4.2.2 Preliminary Site Assessment (Optional)																	
4.2.3 Water Quality Assessment Studies																	
4.2.4 Cultural Rersourses Technical Report																	
4.2.5 Biological Technical Report																	
4.2.5.1 Biological Technical Report																	
4.2.5.2 Focused Survey for Special Status Plants																	
4.2.5.3 Burrowing Owl Habitat Focused Surveys																	
4.2.6 Traffic Study by County																	

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
David Evans and Associates	Landscape Arch.	Phase I
PROJECT: Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St		DATE: March 18, 2019

TASK	SENIOR PROJECT MANAGER	PROJECT SURVEYOR	PROJECT SURVEYOR	SURVEY ANALYSIST	SURVEY CADD	PROJECT COORDINATOR	SURVEY PARTY CHIEF	SURVEY INSTRUMENTMAN	LANDSCAPE ARCHITECT/QA/QC	SENIOR LANDSCAPE ARCHITECT	LANDSCAPE DESIGNER	SENIOR LANDSCAPE DESIGNER	IRRIGATION DESIGNER	SENIOR IRRIGATION DESIGNER	PROJECT ADMINISTRATOR	HOURS	COST
4.3 CEQA Processing																	
4.3.1 Draft Environmental Documentation																	
4.3.2 Notice of Availability																	
4.3.3 Response to Comments																	
4.3.4 Final Engineering Document																	
4.3.5 Notice of Determination																	

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
David Evans and Associates	Landscape Arch.	Phase II
PROJECT: Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St		DATE: March 18, 2019

TASK	SENIOR PROJECT MANAGER	PROJECT SURVEYOR	PROJECT SURVEYOR	SURVEY ANALYSIST	SURVEY CADD	PROJECT COORDINATOR	SURVEY PARTY CHIEF	SURVEY INSTRUMENTMAN	LANDSCAPE ARCHITECT/QA/QC	SENIOR LANDSCAPE ARCHITECT	LANDSCAPE DESIGNER	SENIOR LANDSCAPE DESIGNER	IRRIGATION DESIGNER	SENIOR IRRIGATION DESIGNER	PROJECT ADMINISTRATOR	HOURS	COST
	$212.24	$176.19	$177.11	$147.43	$109.01	$99.91	$158.93	$143.37	$201.30	$154.16	$71.15	$103.76	$83.01	$115.62	$95.46		
Total Manhours									12	76	110	30	82	84	20	414	
1.0 PROJECT MANAGEMENT																	
1.1 Project Management																	
1.2 Project Team Meetings																	
1.3 Quality Control and Quality Assurance																	
5.0 PLANS, SPECIFICATIONS AND ESTIMATES																	
5.1 Geotechnical Design Report																	
5.2 Storm Water Pollution Prevention Plan (SWPPP)																	
5.3 Utility Relocation Coordination																	
5.4 65% Roadway Plans																	
5.5 65% Storm Drain Plans																	
5.6 65% Traffic Signal Modification Plans																	
5.7 65% Street Lighting Plans																	
5.8 65% Signing Striping and Traffic Control																	
5.9 65% Planting and Iirrigation Plans									2	16	28	6	8	16	4	80	$ 6,530
5.10 65% Retaining Wall Plans																	
5.11 95% Design Civil PS&E									2	12	16	6	16	24	8	84	$ 6,105
5.12 Final 100% Desiogn PS&E and Contract Bid Documents									2	8	6	2	8	4		30	$ 2,934
5.13 Right-of-Way Legal Descriptions and Plats																	
5.14 Right-of-Way Appriasal and Acquisition (13 cases)																	
5.15 PS&E of Raised Landscaped Medians north of Citrus									6	40	60	16	50	40	8	220	$ 18,218

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
David Evans and Associates	Landscape Arch.	Phase III

PROJECT:	DATE:
Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St	March 18, 2019

TASK	SENIOR PROJECT MANAGER	PROJECT SURVEYOR	PROJECT SURVEYOR	SURVEY ANALYSIST	SURVEY CADD	PROJECT COORDINATOR	SURVEY PARTY CHIEF	SURVEY INSTRUMENTMAN	LANDSCAPE ARCHITECT/QA/QC	SENIOR LANDSCAPE ARCHITECT	LANDSCAPE DESIGNER	SENIOR LANDSCAPE DESIGNER	IRRIGATION DESIGNER	SENIOR IRRIGATION DESIGNER	PROJECT ADMINISTRATOR	HOURS	COST
	$212.24	$176.19	$177.11	$147.43	$109.01	$99.91	$158.93	$143.37	$201.30	$154.16	$71.15	$103.76	$83.01	$115.62	$95.46		
Total Manhours										8						8	
6.0 CONSTRUCTION BIDDING AND AWARD SUPPORT																	
6.1 Attend a Pre-Bid Meeting										4						4	$ 617
6.2 Bidding Interpretations, Bid Review and Analysis										4						4	$ 617

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
David Evans and Associates	Landscape Arch.	Phase IV
PROJECT: Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St		DATE: March 18, 2019

TASK	SENIOR PROJECT MANAGER	PROJECT SURVEYOR	PROJECT SURVEYOR	SURVEY ANALYSIST	SURVEY CADD	PROJECT COORDINATOR	SURVEY PARTY CHIEF	SURVEY INSTRUMENTMAN	LANDSCAPE ARCHITECT/QAQC	SENIOR LANDSCAPE ARCHITECT	LANDSCAPE DESIGNER	SENIOR LANDSCAPE DESIGNER	IRRIGATION DESIGNER	SENIOR IRRIGATION DESIGNER	PROJECT ADMINISTRATOR	HOURS	COST
	$212.24	$176.19	$177.11	$147.43	$109.01	$99.91	$158.93	$143.37	$201.30	$154.16	$71.15	$103.76	$83.01	$115.62	$95.46		
Total Manhours										22	18	4	16	24	4	88	
DESIGN CONSTRUCTION SUPPORT																	
6.3 Attend a Pre-Construction Meeting and Site Meetings										12				12		24	$ 1,850
6.4 Administration, Respond to Contractor's RFI's and Review Shop Drawings										8	6			8	4	26	$ 2,042
6.5 Prepare Change Orders																	
6.6 Prepare As-Built Plans										2	12	4	16	4		38	$ 2,905

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
Group Delta Consultants	**Geotechnical Investigations and ISA**	**All Phases**
PROJECT: **Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St**		DATE: **March 18, 2019**

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
	Senior Principal Engineer	36	@	$99.40	$3,578.40
	Associate Engineer	25	@	$61.48	$1,537.00
	Senior Scientist	44	@	$47.22	$2,077.68
	Project Engineer			$35.75	
	Staff Engineer	187	@	$30.97	$5,791.39
	Technician - Geotechnical Laboratory	24	@	$24.39	$585.36
	Technician - Haz Mat	40	@	$28.77	$1,150.80
	CADD	18	@	$32.88	$591.84
	Administrator	5	@	$28.02	$140.10
	TOTAL HOURS	**379**		TAL DIRECT LABOR	**$15,452.57**

MULTIPLIERS

ESCALATION @		(Rates Vary by Phase)	$272.06
OVERHEAD @	128.10%	(of Direct Labor + Escalation)	$20,143.25
PAYROLL ADDITIVES @	52.80%	(of Direct Labor + Escalation)	$8,302.60
PROFIT (FIXED FEE)	10.0%		$4,417.05
		TOTAL MULTIPLIERS	**$33,134.95**

OTHER DIRECT COSTS

••• Billed at Actual Cost •••

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1		@	$200.00	$200.00
Mailing and Overnight Delivery	1		@	$175.00	$175.00
Transporation	1		@	$800.00	$800.00
Permit Fees	1		@	$500.00	$500.00
Miscellaneous (Chemical & LBP Labs, Traffic Control, Database Repor	1		@	$19,500.00	$19,500.00
				TOTAL ODC'S	**$21,175.00**

TOTAL **$69,762.52**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
Group Delta Consultants	**Geotechnical Investigations and ISA**	**Phase I**
PROJECT: **Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St**		DATE: **March 18, 2019**

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
	Senior Principal Engineer	10	@	$99.40	$994.00
	Associate Engineer	25	@	$61.48	$1,537.00
	Senior Scientist			$47.22	
	Project Engineer			$35.75	
	Staff Engineer	120	@	$30.97	$3,716.40
	Technician - Geotechnical Laboratory			$24.39	
	Technician - Haz Mat	40	@	$28.77	$1,150.80
	CADD	6	@	$32.88	$197.28
	Administrator	3	@	$28.02	$84.06
	TOTAL HOURS	**204**		TAL DIRECT LABOR	**$7,679.54**

MULTIPLIERS

ESCALATION @		(of Direct Labor)	
OVERHEAD @	128.10%	(of Direct Labor + Escalation)	$9,837.49
PAYROLL ADDITIVES @	52.80%	(of Direct Labor + Escalation)	$4,054.80
PROFIT (FIXED FEE)	10.0%		$2,157.18
		TOTAL MULTIPLIERS	**$16,049.47**

OTHER DIRECT COSTS

••• Billed at Actual Cost •••

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1		@	$200.00	$200.00
Mailing and Overnight Delivery	1		@	$175.00	$175.00
Transporation	1		@	$800.00	$800.00
Permit Fees	1		@	$500.00	$500.00
Miscellaneous (Chemical & LBP Labs, Traffic Control, Database Repor	1		@	$19,500.00	$19,500.00
				TOTAL ODC'S	**$21,175.00**

TOTAL **$44,904.01**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
Group Delta Consultants	**Geotechnical Investigations and ISA**	**Phase II**
PROJECT: **Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St**		DATE: **March 18, 2019**

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
	Senior Principal Engineer	26	@	$99.40	$2,584.40
	Associate Engineer			$61.48	
	Senior Scientist	44	@	$47.22	$2,077.68
	Project Engineer			$35.75	
	Staff Engineer	67	@	$30.97	$2,074.99
	Technician - Geotechnical Laboratory	24	@	$24.39	$585.36
	Technician - Haz Mat			$28.77	
	CADD	12	@	$32.88	$394.56
	Administrator	2	@	$28.02	$56.04
	TOTAL HOURS	**175**		AL DIRECT LABOR	**$7,773.03**

MULTIPLIERS

ESCALATION @	3.50%	(of Direct Labor)	$272.06
OVERHEAD @	128.10%	(of Direct Labor + Escalation)	$10,305.76
PAYROLL ADDITIVES @	52.80%	(of Direct Labor + Escalation)	$4,247.81
PROFIT (FIXED FEE)	10.0%		$2,259.86
		TOTAL MULTIPLIERS	**$17,085.48**

OTHER DIRECT COSTS

••• Billed at Actual Cost •••

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction			$200.00	
Mailing and Overnight Delivery			$175.00	
Transporation			$800.00	
Permit Fees			$500.00	
Miscellaneous (Chemical & LBP Labs, Traffic Control, Database Report, Geophysics, Drilling)			$19,500.00	
			TOTAL ODC'S	

TOTAL **$24,858.51**

SUBCONSULTANT MANHOUR WORKSHEET SUMMARY

COMPANY:	SCOPE OF WORK:	PHASE:
Group Delta Consultants	**Geotechnical Investigations and ISA**	**All Phases**
PROJECT:		DATE:
Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St		**March 18, 2019**

TASK	SENIOR PRINCIPAL ENGINEER	ASSOCIATE ENGINEER	SENIOR SCIENTIST	PROJECT ENGINEER	STAFF ENGINEER	TECHNICIAN GEOTECHNICAL LABORATORY	TECHNICIAN - HAZ MAT	CADD	ADMINISTRATOR	HOURS
	$307.14	$189.97	$145.91	$110.46	$95.69	$75.36	$88.90	$101.60	$86.58	
PHASE TOTALS	**36**	**25**	**44**	**187**	**24**	**40**	**18**	**5**		**379**
PHASE I	10	25		120		40	6	3		204
PHASE II	26		44	67	24		12	2		175
PHASE III										
PHASE IV										

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
Group Delta Consultants	Geotechnical Investigations and ISA	Phase I
PROJECT:		DATE:
Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St		March 18, 2019

TASK	SENIOR PRINCIPAL ENGINEER	ASSOCIATE ENGINEER	SENIOR SCIENTIST	PROJECT ENGINEER	STAFF ENGINEER	TECHNICIAN - GEOTECHNICAL LABORATORY	TECHNICIAN - HAZ MAT	CADD	ADMINISTRATOR						HOURS	COST
	$307.14	$189.97	$145.91	$110.46	$95.69	$75.36	$88.90	$101.60	$86.58							
Total Manhours	10	25			120		40	6	3						204	
1.0 PROJECT MANAGEMENT																
1.1 Project Management																
1.2 Project Team Meetings																
1.3 Quality Control and Quality Assurance																
2.0 RESEARCH AND DATA GATHERING																
2.1 Collect and Review Existing Information																
2.2 Conduct Field Review																
3.0 PRELIMINARY ENGINEERING																
3.1 Preliminary Utility Mapping																
3.2 Permits (By County)																
3.3 Survey and Right of Way Mapping																
3.4 Right-of-Way Requirements Map																
3.5 Geometric Approval Drawings																
3.6 Preliminary Drainage Engineering																
3.7 Advisory and Mandatory Fact Sheets																
3.8 Engineer's Estimate																
3.9 Medians north of Citrus Prelim Engineering																
4.0 ENVIRONMENTAL CLEARANCE / TECHNICAL REPORT																
4.1 Environmental Management / Meetings																
4.1.1 Environmental Management																
4.1.2 Environmental Meetings																
4.2 Technical Studies																
4.2.1 Hazardous Waste (Initial Site Assessme	2	10			44			2	1						59	$ 7,014
4.2.2 Preliminary Site Assessment (Optional)	8	15			76		40	4	2						145	$ 16,715
4.2.3 Water Quality Assessment Studies																
4.2.4 Cultural Studies																
4.2.5 Biological Technical Report																

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
Group Delta Consultants	**Geotechnical Investigations and ISA**	**Phase I**
PROJECT: **Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St**		DATE: **March 18, 2019**

TASK	SENIOR PRINCIPAL ENGINEER	ASSOCIATE ENGINEER	SENIOR SCIENTIST	PROJECT ENGINEER	STAFF ENGINEER	TECHNICIAN - GEOTECHNICAL LABORATORY	TECHNICIAN - HAZ MAT	CADD	ADMINISTRATOR						HOURS	COST
4.2.5 Biological Technical Report																
4.2.5.1 Biological Technical Report																
4.2.5.2 Focused Survey for Special Status Plants																
4.2.5.3 Burrowing Owl Habitat Focused Surveys																
4.2.6 Traffic Study by County																
4.3 CEQA Processing																
4.3.1 Draft Environmental Documentation																
4.3.2 Notice of Availability																
4.3.3 Response to Comments																
4.3.4 Final Engineering Document																
4.3.5 Notice of Determination																

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
Group Delta Consultants	Geotechnical Investigations and ISA	Phase II
PROJECT: Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St		DATE: March 18, 2019

TASK	SENIOR PRINCIPAL ENGINEER	ASSOCIATE ENGINEER	SENIOR SCIENTIST	PROJECT ENGINEER	STAFF ENGINEER	TECHNICIAN - GEOTECHNICAL LABORATORY	TECHNICIAN - HAZ MAT	CADD	ADMINISTRATOR						HOURS	COST
	$307.14	$189.97	$145.91	$110.46	$95.69	$75.36	$88.90	$101.60	$86.58							
Total Manhours	**26**		**44**		**67**	**24**		**12**	**2**						**175**	
1.0 PROJECT MANAGEMENT																
1.1 Project Management																
1.2 Project Team Meetings																
1.3 Quality Control and Quality Assurance																
5.0 PLANS, SPECIFICATIONS AND ESTIMATES																
5.1 Geotechnical Design Report	**26**		**44**		**67**	**24**		**12**	**2**						**175**	**$ 24,018**
5.2 Storm Water Pollution Prevention Plan (SWPPP)																
5.3 Utility Relocation Coordination																
5.4 65% Roadway Plans																
5.5 65% Storm Drain Plans																
5.6 65% Traffic Signal Modification Plans																
5.7 65% Street Lighting Plans																
5.8 65% Signing Striping and Traffic Control																
5.9 65% Planting and Iirrigation Plans																
5.10 65% Retaining Wall Plans																
5.11 95% Design Civil PS&E																
5.12 Final 100% Desiogn PS&E and Contract Bid Documents																
5.13 Right-of-Way Legal Descriptions and Plats																
5.14 Right-of-Way Appriasal and Acquisition (13 cases)																
5.15 PS&E of Raised Landscaped Medians north of Citrus																

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
ICF Jones and Stokes	**Environmental Clearance**	**All Phases**
PROJECT: **Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St**		DATE: **March 18, 2019**

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Brian Calvert	Project Director	77	@	$90.17	$6,943.09
Rusty Whisman	Senior Consultant II	279	@	$41.91	$11,692.89
Greg Hoisington	Managing Consultant	20	@	$57.73	$1,154.60
Keith Cooper	Sr. Technical Analysist	16	@	$65.73	$1,051.68
Megan Jameson	Managing Consultant			$54.05	
Laura Rocha	Managing Consultant	14	@	$55.38	$775.32
Soraya Swiontek	Senior Consultant I	50	@	$34.08	$1,704.00
Nara Cox	Associate Consultant I	54	@	$25.52	$1,378.08
Elizabeth Irvin	Associate Consultant I	92	@	$42.79	$3,936.68
Philip Richards	Senior Consultant II	6	@	$47.72	$286.32
Karen Crawford	Project Director	4	@	$63.90	$255.60
Karolina Chmiel	Senior Consultant I	73	@	$35.12	$2,563.76
Marisa Flores	Senior Consultant I	8	@	$37.92	$303.36
Colleen Martin	Associate Consultant II	62	@	$35.44	$2,197.28
Jennifer Ban	Senior Consultant II	13	@	$51.12	$664.56
Stephanie Gasca	Senior Consultant II			$55.77	
Peter Hardie	Senior Consultant III	46	@	$55.99	$2,575.54
Ryan Winkleman	Senior Consultant I	40	@	$42.00	$1,680.00
Denise Souliotes	Admin Technician	26	@	$19.82	$515.32
Paul Schwartz	Senior Consultant I			$45.31	
Jonathan Higginson	Senior Consultant III	10	@	$55.19	$551.90
Timothy Yates	Senior Consultant I	4	@	$39.76	$159.04
Eric Moskus	Associate Consultant III	64	@	$30.51	$1,952.64
	TOTAL HOURS	**958**		AL DIRECT LABOR	**$42,341.66**

MULTIPLIERS

ESCALATION @		(Rates Vary by Phase)	
OVERHEAD @	128.19%	(of Direct Labor + Escalation)	$54,277.77
PAYROLL ADDITIVES @	41.24%	(of Direct Labor + Escalation)	$17,461.70
PROFIT (FIXED FEE)	10.0%		$11,408.11
		TOTAL MULTIPLIERS	**$83,147.59**

OTHER DIRECT COSTS

••• Billed at Actual Cost •••

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1		@	$5,460.00	$5,460.00
Mailing and Overnight Delivery	1		@	$3,000.00	$3,000.00
Transportation	1		@	$1,498.00	$1,498.00
Newspaper Notices	1		@	$7,000.00	$7,000.00
Record Searches	1		@	$1,700.00	$1,700.00
CDFW Filing Fee	1		@	$2,225.00	$2,225.00
				TOTAL ODC'S	**$20,883.00**

TOTAL **$146,372.25**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
ICF Jones and Stokes	**Environmental Clearance**	**Phase I**
PROJECT: **Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St**		DATE: **March 18, 2019**

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Brian Calvert	Project Director	77	@	$90.17	$6,943.09
Rusty Whisman	Senior Consultant II	279	@	$41.91	$11,692.89
Greg Hoisington	Managing Consultant	20	@	$57.73	$1,154.60
Keith Cooper	Sr. Technical Analysist	16	@	$65.73	$1,051.68
Megan Jameson	Managing Consultant			$54.05	
Laura Rocha	Managing Consultant	14	@	$55.38	$775.32
Soraya Swiontek	Senior Consultant I	50	@	$34.08	$1,704.00
Nara Cox	Associate Consultant I	54	@	$25.52	$1,378.08
Elizabeth Irvin	Associate Consultant I	92	@	$42.79	$3,936.68
Philip Richards	Senior Consultant II	6	@	$47.72	$286.32
Karen Crawford	Project Director	4	@	$63.90	$255.60
Karolina Chmiel	Senior Consultant I	73	@	$35.12	$2,563.76
Marisa Flores	Senior Consultant I	8	@	$37.92	$303.36
Colleen Martin	Associate Consultant II	62	@	$35.44	$2,197.28
Jennifer Ban	Senior Consultant II	13	@	$51.12	$664.56
Stephanie Gasca	Senior Consultant II			$55.77	
Peter Hardie	Senior Consultant III	46	@	$55.99	$2,575.54
Ryan Winkleman	Senior Consultant I	40	@	$42.00	$1,680.00
Denise Souliotes	Admin Technician	26	@	$19.82	$515.32
Paul Schwartz	Senior Consultant I			$45.31	
Jonathan Higginson	Senior Consultant III	10	@	$55.19	$551.90
Timothy Yates	Senior Consultant I	4	@	$39.76	$159.04
Eric Moskus	Associate Consultant III	64	@	$30.51	$1,952.64
	TOTAL HOURS	**958**		TAL DIRECT LABOR	**$42,341.66**

MULTIPLIERS

ESCALATION @		(of Direct Labor)	
OVERHEAD @	128.19%	(of Direct Labor + Escalation)	$54,277.77
PAYROLL ADDITIVES @	41.24%	(of Direct Labor + Escalation)	$17,461.70
PROFIT (FIXED FEE)	10.0%		$11,408.11
		TOTAL MULTIPLIERS	**$83,147.59**

OTHER DIRECT COSTS

••• Billed at Actual Cost •••

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1		@	$5,460.00	$5,460.00
Mailing and Overnight Delivery	1		@	$3,000.00	$3,000.00
Transportation	1		@	$1,498.00	$1,498.00
Newspaper Notices	1		@	$7,000.00	$7,000.00
Record Searches	1		@	$1,700.00	$1,700.00
CDFW Filing Fee	1		@	$2,225.00	$2,225.00
				TOTAL ODC'S	**$20,883.00**

TOTAL **$146,372.25**

SUBCONSULTANT MANHOUR WORKSHEET SUMMARY

COMPANY:		SCOPE OF WORK:	PHASE:
ICF Jones and Stokes		Environmental Clearance	All Phases
PROJECT: Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St			DATE: March 18, 2019

TASK	PROJECT DIRECTOR	SENIOR CONSULTANT II	MANAGING CONSULTANT	SR. TECHNICAL ANALYSIST	MANAGING CONSULTANT	MANAGING CONSULTANT	SENIOR CONSULTANT I	ASSOCIATE CONSULTANT I	SENIOR CONSULTANT I	PROJECT DIRECTOR	SENIOR CONSULTANT I	SENIOR CONSULTANT I	ASSOCIATE CONSULTANT I	SENIOR CONSULTANT II	SENIOR CONSULTANT II	SENIOR CONSULTANT II	SENIOR CONSULTANT II	SENIOR CONSULTANT III	SENIOR CONSULTANT II	ADMIN TECHNICIAN	SENIOR CONSULTANT I	SENIOR CONSULTANT I	SENIOR CONSULTANT III	SENIOR CONSULTANT I	ASSOCIATE CONSULTANT III	HOURS
	$267.24	$124.21	$171.10	$194.81	$160.19	$164.13	$101.00	$75.63	$126.82	$141.43	$189.38	$104.09	$112.38	$105.03	$151.51	$165.29	$165.94	$124.48	$58.74	$134.29	$163.57	$117.84	$90.42			
PHASE TOTALS	**77**	**279**	**20**	**16**		**14**	**50**	**54**	**92**	**6**	**4**	**73**	**8**	**62**	**13**		**46**	**40**	**26**		**10**	**4**	**64**			**958**
PHASE I	77	279	20	16		14	50	54	92	6	4	73	8	62	13		46	40	26		10	4	64			958
PHASE II																										
PHASE III																										
PHASE IV																										

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: ICF Jones and Stokes

SCOPE OF WORK: Environmental Clearance

PHASE: Phase I

PROJECT: Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St

DATE: March 18, 2019

TASK	PROJECT DIRECTOR	SENIOR CONSULTANT III	MANAGING CONSULTANT	SR. TECHNICAL ANALYSIST	MANAGING CONSULTANT	MANAGING CONSULTANT	SENIOR CONSULTANT	ASSOCIATE CONSULTANT I	ASSOCIATE CONSULTANT I	SENIOR CONSULTANT I	SENIOR CONSULTANT III	PROJECT DIRECTOR	SENIOR CONSULTANT I	SENIOR CONSULTANT I	ASSOCIATE CONSULTANT II	SENIOR CONSULTANT II	SENIOR CONSULTANT II	SENIOR CONSULTANT III	SENIOR CONSULTANT III	SENIOR CONSULTANT I	ADMIN TECHNICIAN	SENIOR CONSULTANT I	SENIOR CONSULTANT III	SENIOR CONSULTANT I	ASSOCIATE CONSULTANT III	HOURS	COST
	$267.24	$124.21	$171.10	$194.81	$160.19	$154.13	$101.00	$73.63	$126.82	$141.43	$189.38	$104.09	$112.38	$105.03	$151.51	$185.29	$185.94	$124.48	$56.74	$134.29	$163.57	$117.84	$90.42				
Total Manhours	77	279	20	16		14	50	54	92	6	4	73	8	62	13		46	40	26		10	4	64	958	
1.0 PROJECT MANAGEMENT																									
1.1 Project Management																									
1.2 Project Team Meetings																									
1.3 Quality Control and Quality Assurance																									
2.0 RESEARCH AND DATA GATHERING																									
2.1 Collect and Review Existing Information																									
2.2 Conduct Field Review																									
3.0 PRELIMINARY ENGINEERING																									
3.1 Preliminary Utility Mapping																									
3.2 Permits (By County)																									
3.3 Survey and Right of Way Mapping																									
3.4 Right-of-Way Requirements Map																									
3.5 Geometric Approval Drawings																									
3.6 Preliminary Drainage Engineering																									
3.7 Advisory and Mandatory Fact Sheets																									
3.8 Engineer's Estimate																									
3.9 Medians north of Citrus Prelim Engineering																									
4.0 ENVIRONMENTAL CLEARANCE / TECHNICAL REPORT																									
4.1 Environmental Management / Meetings																									
4.1.1 Environmental Management	14	72																	6					92	$ 13,037
4.1.2 Environmental Meetings	40																							40	$ 10,690
4.2 Technical Studies																									
4.2.1 Hazardous Waste (Initial Site Assessment)																									
4.2.2 Preliminary Site Assessment (Optional)																									
4.2.3 Water Quality Assessment Studies																									
4.2.4 Cultural Rersourses Technical Report	4	12					12	54	16		4	64												166	$ 2,559
4.2.5 Biological Technical Report																									
4.2.5.1 Biological Technical Report	4	12	10				16		16	6			6	48				40	2					160	$ 9,367
4.2.5.2 Focused Survey for Special Status Plants																									
4.2.5.3 Burrowing Owl Habitat Focused Surveys																									
4.2.6 Traffic Study by County																									
4.3 CEQA Processing																									
4.3.1 Draft Environmental Documentation	4	112	4	12		12	18		22			4		8	12		42		2		10	4	64	330	$ 34,802
4.3.2 Notice of Availability	1	8							14										14					37	$ 2,083
4.3.3 Response to Comments	6	24	4	2		1			8			3	2	4			2							56	$ 5,990
4.3.4 Final Engineering Document	4	38	2	2		1	4		16			2		2	1		2		2					76	$ 7,122
4.3.5 Notice of Determination		1																						1	$ 124

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
KOA Corporation	**Traffic Signals and Street Lights**	**All Phases**
PROJECT: **Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St**		DATE: **March 18, 2019**

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Ming Guan	Senior Engineer II	26	@	$58.00	$1,508.00
Andrew Osaki	Associate Engineer	122	@	$35.00	$4,270.00
Felix Ramos	Assisant Engineer	166	@	$30.00	$4,980.00
Denise Martin	Administrative	16	@	$33.15	$530.40
	TOTAL HOURS	**330**		TAL DIRECT LABOR	**$11,288.40**

MULTIPLIERS

ESCALATION @		(Rates Vary by Phase)	$377.38
OVERHEAD @	40.10%	(of Direct Labor + Escalation)	$4,677.98
PAYROLL ADDITIVES @	112.20%	(of Direct Labor + Escalation)	$13,089.01
PROFIT (FIXED FEE)	10.0%		$2,943.28
		TOTAL MULTIPLIERS	**$21,087.65**

OTHER DIRECT COSTS

••• Billed at Actual Cost •••

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1		@	$350.00	$350.00
Mailing and Overnight Delivery	1		@	$50.00	$50.00
Transportation	1		@	$50.00	$50.00
			TOTAL ODC'S		**$450.00**

TOTAL **$32,826.05**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
KOA Corporation	**Traffic Signals and Street Lights**	**Phase I**
PROJECT: **Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St**		DATE: **March 18, 2019**

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Ming Guan	Senior Engineer II	2	@	$58.00	$116.00
Andrew Osaki	Associate Engineer	6	@	$35.00	$210.00
Felix Ramos	Assisant Engineer	6	@	$30.00	$180.00
Denise Martin	Administrative			$33.15	
	TOTAL HOURS	**14**		TAL DIRECT LABOR	**$506.00**

MULTIPLIERS

ESCALATION @		(of Direct Labor)	
OVERHEAD @	40.10%	(of Direct Labor + Escalation)	$202.91
PAYROLL ADDITIVES @	112.20%	(of Direct Labor + Escalation)	$567.73
PROFIT (FIXED FEE)	10.0%		$127.66
		TOTAL MULTIPLIERS	**$898.30**

OTHER DIRECT COSTS

••• Billed at Actual Cost •••

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1		@	$350.00	$350.00
Mailing and Overnight Delivery	1		@	$50.00	$50.00
Transportation	1		@	$50.00	$50.00
			TOTAL ODC'S		**$450.00**

TOTAL **$1,854.30**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
KOA Corporation	**Traffic Signals and Street Lights**	**Phase II**
PROJECT: **Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St**		DATE: **March 18, 2019**

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Ming Guan	Senior Engineer II	16	@	$58.00	$928.00
Andrew Osaki	Associate Engineer	98	@	$35.00	$3,430.00
Felix Ramos	Assisant Engineer	160	@	$30.00	$4,800.00
Denise Martin	Administrative	16	@	$33.15	$530.40
	TOTAL HOURS	**290**		˙AL DIRECT LABOR	**$9,688.40**

MULTIPLIERS

ESCALATION @	3.50%	(of Direct Labor)	$339.09
OVERHEAD @	40.10%	(of Direct Labor + Escalation)	$4,021.03
PAYROLL ADDITIVES @	112.20%	(of Direct Labor + Escalation)	$11,250.85
PROFIT (FIXED FEE)	10.0%		$2,529.94
		TOTAL MULTIPLIERS	**$18,140.90**

OTHER DIRECT COSTS

••• Billed at Actual Cost •••

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction			$350.00	
Mailing and Overnight Delivery			$50.00	
Transportation			$50.00	
			TOTAL ODC'S	

TOTAL **$27,829.30**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
KOA Corporation	**Traffic Signals and Street Lights**	**Phase IV**
PROJECT: **Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St**		DATE: **March 18, 2019**

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Ming Guan	Senior Engineer II	8	@	$58.00	$464.00
Andrew Osaki	Associate Engineer	18	@	$35.00	$630.00
Felix Ramos	Assisant Engineer			$30.00	
Denise Martin	Administrative			$33.15	
	TOTAL HOURS	**26**		'AL DIRECT LABOR	**$1,094.00**

MULTIPLIERS

ESCALATION @	3.50%	(of Direct Labor)	$38.29
OVERHEAD @	40.10%	(of Direct Labor + Escalation)	$454.05
PAYROLL ADDITIVES @	112.20%	(of Direct Labor + Escalation)	$1,270.43
PROFIT (FIXED FEE)	10.0%		$285.68
		TOTAL MULTIPLIERS	**$2,048.44**

OTHER DIRECT COSTS

••• Billed at Actual Cost •••

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction			$350.00	
Mailing and Overnight Delivery			$50.00	
Transportation			$50.00	
			TOTAL ODC'S	

TOTAL **$3,142.44**

SUBCONSULTANT MANHOUR WORKSHEET SUMMARY

COMPANY:	SCOPE OF WORK:	PHASE:
KOA Corporation	**Traffic Signals and Street Lights**	**All Phases**
PROJECT: **Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St**		DATE: **March 18, 2019**

TASK	SENIOR ENGINEER II	ASSOCIATE ENGINEER	ASSISANT ENGINEER	ADMINISTRATIVE	HOURS
	$160.97	$97.14	$83.26	$92.00	
PHASE TOTALS	**26**	**122**	**166**	**16**	**330**
PHASE I	2	6	6		14
PHASE II	16	98	160	16	290
PHASE III					
PHASE IV	8	18			26

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
KOA Corporation	Traffic Signals and Street Lights	Phase I
PROJECT: Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St		DATE: March 18, 2019

TASK	SENIOR ENGINEER II	ASSOCIATE ENGINEER	ASSISANT ENGINEER	ADMINISTRATIVE											HOURS	COST
	$160.97	$97.14	$83.26	$92.00												
Total Manhours	2	6	6												14	
1.0 PROJECT MANAGEMENT																
1.1 Project Management																
1.2 Project Team Meetings																
1.3 Quality Control and Quality Assurance																
2.0 RESEARCH AND DATA GATHERING																
2.1 Collect and Review Existing Information																
2.2 Conduct Field Review	2	6	6												14	$ 1,404
3.0 PRELIMINARY ENGINEERING																
3.1 Preliminary Utility Mapping																
3.2 Permits (By County)																
3.3 Survey and Right of Way Mapping																
3.4 Right-of-Way Requirements Map																
3.5 Geometric Approval Drawings																
3.6 Preliminary Drainage Engineering																
3.7 Advisory and Mandatory Fact Sheets																
3.8 Engineer's Estimate																
3.9 Medians north of Citrus Prelim Engineering																
4.0 ENVIRONMENTAL CLEARANCE / TECHNICAL REPORT																
4.1 Environmental Management / Meetings																
4.1.1 Environmental Management																
4.1.2 Environmental Meetings																
4.2 Technical Studies																
4.2.1 Hazardous Waste (Initial Site Assessment)																
4.2.2 Preliminary Site Assessment (Optional)																
4.2.3 Water Quality Assessment Studies																

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
KOA Corporation	Traffic Signals and Street Lights	Phase I

PROJECT:	DATE:
Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St	March 18, 2019

TASK	SENIOR ENGINEER II	ASSOCIATE ENGINEER	ASSISANT ENGINEER	ADMINISTRATIVE											HOURS	COST
4.2.4 Cultural Rersourses Technical Report																
4.2.5 Biological Technical Report																
4.2.5.1 Biological Technical Report																
4.2.5.2 Focused Survey for Special Status Plants																
4.2.5.3 Burrowing Owl Habitat Focused Surveys																
4.2.6 Traffic Study by County																
4.3 CEQA Processing																
4.3.1 Draft Environmental Documentation																
4.3.2 Notice of Availability																
4.3.3 Response to Comments																
4.3.4 Final Engineering Document																
4.3.5 Notice of Determination																

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
KOA Corporation	Traffic Signals and Street Lights	Phase II
PROJECT: Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St		DATE: March 18, 2019

TASK	SENIOR ENGINEER II	ASSOCIATE ENGINEER	ASSISANT ENGINEER	ADMINISTRATIVE											HOURS	COST
	$160.97	$97.14	$83.26	$92.00												
Total Manhours	**16**	**98**	**160**	**16**											**290**	
1.0 PROJECT MANAGEMENT																
1.1 Project Management																
1.2 Project Team Meetings																
1.3 Quality Control and Quality Assurance																
5.0 PLANS, SPECIFICATIONS AND ESTIMATES																
5.1 Geotechnical Design Report																
5.2 Storm Water Pollution Prevention Plan (SWPPP)																
5.3 Utility Relocation Coordination																
5.4 65% Roadway Plans																
5.5 65% Storm Drain Plans																
5.6 65% Traffic Signal Modification Plans	**6**	**48**	**80**	**8**											**142**	**$ 13,025**
5.7 65% Street Lighting Plans	**4**	**22**	**24**	**2**											**52**	**$ 4,963**
5.8 65% Signing Striping and Traffic Control																
5.9 65% Planting and Iirrigation Plans																
5.10 65% Retaining Wall Plans																
5.11 95% Design Civil PS&E	**4**	**16**	**36**	**4**											**60**	**$ 5,563**
5.12 Final 100% Desiogn PS&E and Contract Bid Documents	**2**	**12**	**20**	**2**											**36**	**$ 3,337**
5.13 Right-of-Way Legal Descriptions and Plats																
5.14 Right-of-Way Appriasal and Acquisition (13 cases)																
5.15 PS&E of Raised Landscaped Medians north of Citrus																

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
KOA Corporation	Traffic Signals and Street Lights	Phase IV
PROJECT: Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St		DATE: March 18, 2019

TASK	SENIOR ENGINEER II	ASSOCIATE ENGINEER	ASSISANT ENGINEER	ADMINISTRATIVE											HOURS	COST
	$160.97	$97.14	$83.26	$92.00												
Total Manhours	8	18													26	
DESIGN CONSTRUCTION SUPPORT																
6.3 Attend a Pre-Construction Meeting and Site Meetings	4	4													8	$ 1,032
6.4 Administration, Respond to Contractor's RFI's and Review Shop Drawings	4	14													18	$ 2,004
6.5 Prepare Change Orders																
6.6 Prepare As-Built Plans																

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
Webb Associates	**Drainage Engineering**	**All Phases**
PROJECT: **Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St**		DATE: **March 18, 2019**

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Joseph Caldwell	Principal I	29	@	$72.40	$2,099.60
Eric Hays	Senior II	25	@	$66.90	$1,672.50
Conrad Smith	Assistant III	68	@	$39.45	$2,682.60
Jose Carrillo	Associate I	40	@	$42.88	$1,715.20
Deborah Salina	Project Coordinator	20	@	$30.87	$617.40
	TOTAL HOURS	**182**		TAL DIRECT LABOR	**$8,787.30**

MULTIPLIERS

ESCALATION @		(Rates Vary by Phase)	$230.68
OVERHEAD @	55.00%	(of Direct Labor + Escalation)	$4,959.89
PAYROLL ADDITIVES @	110.00%	(of Direct Labor + Escalation)	$9,919.78
PROFIT (FIXED FEE)	10.0%		$2,389.77
		TOTAL MULTIPLIERS	**$17,500.13**

OTHER DIRECT COSTS

••• Billed at Actual Cost •••

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1		@	$200.00	$200.00
Mailing and Overnight Delivery	1		@	$150.00	$150.00
Transportation	1		@	$150.00	$150.00
			TOTAL ODC'S		**$500.00**

TOTAL **$26,787.43**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
Webb Associates	**Drainage Engineering**	**Phase I**
PROJECT: **Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St**		DATE: **March 18, 2019**

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Joseph Caldwell	Principal I	7	@	$72.40	$506.80
Eric Hays	Senior II	5	@	$66.90	$334.50
Conrad Smith	Assistant III	32	@	$39.45	$1,262.40
Jose Carrillo	Associate I			$42.88	
Deborah Salina	Project Coordinator	3	@	$30.87	$92.61
	TOTAL HOURS	**47**		TOTAL DIRECT LABOR	**$2,196.31**

MULTIPLIERS

ESCALATION @		(of Direct Labor)	
OVERHEAD @	55.00%	(of Direct Labor + Escalation)	$1,207.97
PAYROLL ADDITIVES @	110.00%	(of Direct Labor + Escalation)	$2,415.94
PROFIT (FIXED FEE)	10.0%		$582.02
		TOTAL MULTIPLIERS	**$4,205.93**

OTHER DIRECT COSTS

••• Billed at Actual Cost •••

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1		@	$200.00	$200.00
Mailing and Overnight Delivery	1		@	$150.00	$150.00
Transportation	1		@	$150.00	$150.00
			TOTAL ODC'S		**$500.00**

TOTAL **$6,902.24**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
Webb Associates	**Drainage Engineering**	**Phase II**
PROJECT: **Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St**		DATE: **March 18, 2019**

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Joseph Caldwell	Principal I	9	@	$72.40	$651.60
Eric Hays	Senior II	20	@	$66.90	$1,338.00
Conrad Smith	Assistant III	36	@	$39.45	$1,420.20
Jose Carrillo	Associate I	36	@	$42.88	$1,543.68
Deborah Salina	Project Coordinator	12	@	$30.87	$370.44
	TOTAL HOURS	**113**		TAL DIRECT LABOR	**$5,323.92**

MULTIPLIERS

ESCALATION @	3.50%	(of Direct Labor)	$186.34
OVERHEAD @	55.00%	(of Direct Labor + Escalation)	$3,030.64
PAYROLL ADDITIVES @	110.00%	(of Direct Labor + Escalation)	$6,061.28
PROFIT (FIXED FEE)	10.0%		$1,460.22
		TOTAL MULTIPLIERS	**$10,738.48**

OTHER DIRECT COSTS

••• Billed at Actual Cost •••

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction			$200.00	
Mailing and Overnight Delivery			$150.00	
Transportation			$150.00	
			TOTAL ODC'S	

TOTAL **$16,062.40**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
Webb Associates	**Drainage Engineering**	**Phase IV**
PROJECT: **Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St**		DATE: **March 18, 2019**

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Joseph Caldwell	Principal I	13	@	$72.40	$941.20
Eric Hays	Senior II			$66.90	
Conrad Smith	Assistant III			$39.45	
Jose Carrillo	Associate I	4	@	$42.88	$171.52
Deborah Salina	Project Coordinator	5	@	$30.87	$154.35
	TOTAL HOURS	**22**		TAL DIRECT LABOR	**$1,267.07**

MULTIPLIERS

ESCALATION @	3.50%	(of Direct Labor)	$44.35
OVERHEAD @	55.00%	(of Direct Labor + Escalation)	$721.28
PAYROLL ADDITIVES @	110.00%	(of Direct Labor + Escalation)	$1,442.56
PROFIT (FIXED FEE)	10.0%		$347.53
		TOTAL MULTIPLIERS	**$2,555.71**

OTHER DIRECT COSTS

••• Billed at Actual Cost •••

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction			$200.00	
Mailing and Overnight Delivery			$150.00	
Transportation			$150.00	
			TOTAL ODC'S	

TOTAL **$3,822.78**

SUBCONSULTANT MANHOUR WORKSHEET SUMMARY

COMPANY:	SCOPE OF WORK:	PHASE:
Webb Associates	**Drainage Engineering**	**All Phases**
PROJECT: **Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St**		DATE: **March 18, 2019**

TASK	PRINCIPAL I	SENIOR II	ASSISTANT III	ASSOCIATE I	PROJECT COORDINATOR	HOURS
	$211.05	$195.01	$115.00	$125.00	$89.99	
PHASE TOTALS	**29**	**25**	**68**	**40**	**20**	**182**
PHASE I	7	5	32		3	47
PHASE II	9	20	36	36	12	113
PHASE III						
PHASE IV	13			4	5	22

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
Webb Associates	**Drainage Engineering**	**Phase I**
PROJECT: **Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St**		DATE: **March 18, 2019**

TASK	PRINCIPAL I	SENIOR II	ASSISTANT III	ASSOCIATE I	PROJECT COORDINATOR										HOURS	COST
	$211.05	$195.01	$115.00	$125.00	$89.99											
Total Manhours	**7**	**5**	**32**		**3**										**47**	
1.0 PROJECT MANAGEMENT																
1.1 Project Management																
1.2 Project Team Meetings																
1.3 Quality Control and Quality Assurance																
2.0 RESEARCH AND DATA GATHERING																
2.1 Collect and Review Existing Information																
2.2 Conduct Field Review	**2**		**2**												**4**	**$ 652**
3.0 PRELIMINARY ENGINEERING																
3.1 Preliminary Utility Mapping																
3.2 Permits (By County)																
3.3 Survey and Right of Way Mapping																
3.4 Right-of-Way Requirements Map																
3.5 Geometric Approval Drawings																
3.6 Preliminary Drainage Engineering	**4**	**5**	**26**		**3**										**38**	**$ 5,079**
3.7 Advisory and Mandatory Fact Sheets																
3.8 Engineer's Estimate	**1**		**4**												**5**	**$ 671**
3.9 Medians north of Citrus Prelim Engineering																
4.0 ENVIRONMENTAL CLEARANCE / TECHNICAL REPORT																
4.1 Environmental Management / Meetings																
4.1.1 Environmental Management																
4.1.2 Environmental Meetings																
4.2 Technical Studies																
4.2.1 Hazardous Waste (Initial Site Assessment)																
4.2.2 Preliminary Site Assessment (Optional)																
4.2.3 Water Quality Assessment Studies																
4.2.4 Cultural Rersourses Technical Report																

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
Webb Associates	**Drainage Engineering**	**Phase I**
PROJECT: **Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St**		DATE: **March 18, 2019**

TASK	PRINCIPAL I	SENIOR II	ASSISTANT III	ASSOCIATE I	PROJECT COORDINATOR										HOURS	COST
4.2.5 Biological Technical Report																
4.2.5.1 Biological Technical Report																
4.2.5.2 Focused Survey for Special Status Plants																
4.2.5.3 Burrowing Owl Habitat Focused Surveys																
4.2.6 Traffic Study by County																
4.3 CEQA Processing																
4.3.1 Draft Environmental Documentation																
4.3.2 Notice of Availability																
4.3.3 Response to Comments																
4.3.4 Final Engineering Document																
4.3.5 Notice of Determination																

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
Webb Associates	**Drainage Engineering**	**Phase II**
PROJECT: **Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St**		DATE: **March 18, 2019**

TASK	PRINCIPAL I	SENIOR II	ASSISTANT III	ASSOCIATE I	PROJECT COORDINATOR										HOURS	COST
	$211.05	$195.01	$115.00	$125.00	$89.99											
Total Manhours	**9**	**20**	**36**	**36**	**12**										**113**	
1.0 PROJECT MANAGEMENT																
1.1 Project Management																
1.2 Project Team Meetings																
1.3 Quality Control and Quality Assurance																
5.0 PLANS, SPECIFICATIONS AND ESTIMATES																
5.1 Geotechnical Design Report																
5.2 Storm Water Pollution Prevention Plan (SWPPP)																
5.3 Utility Relocation Coordination																
5.4 65% Roadway Plans																
5.5 65% Storm Drain Plans	**1**	**10**	**20**	**16**	**4**										**51**	**$ 6,821**
5.6 65% Traffic Signal Modification Plans																
5.7 65% Street Lighting Plans																
5.8 65% Signing Striping and Traffic Control																
5.9 65% Planting and Iirrigation Plans																
5.10 65% Retaining Wall Plans																
5.11 95% Design Civil PS&E	**4**	**6**	**12**	**12**	**4**										**38**	**$ 5,254**
5.12 Final 100% Desiogn PS&E and Contract Bid Documents	**4**	**4**	**4**	**8**	**4**										**24**	**$ 3,444**
5.13 Right-of-Way Legal Descriptions and Plats																
5.14 Right-of-Way Appriasal and Acquisition (13 cases)																
5.15 PS&E of Raised Landscaped Medians north of Citrus																

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY:	SCOPE OF WORK:	PHASE:
Webb Associates	**Drainage Engineering**	**Phase IV**
PROJECT: **Hamner Avenue Widening from Schleisman St to Citrus St and from Detroit St to Sixth St**		DATE: **March 18, 2019**

TASK	PRINCIPAL I	SENIOR II	ASSISTANT III	ASSOCIATE I	PROJECT COORDINATOR										HOURS	COST
	$211.05	$195.01	$115.00	$125.00	$89.99											
Total Manhours	13			4	5										22	
DESIGN CONSTRUCTION SUPPORT																
6.3 Attend a Pre-Construction Meeting and Site Meetings	5														5	$ 1,055
6.4 Administration, Respond to Contractor's RFI's and Review Shop Drawings	3				2										5	$ 813
6.5 Prepare Change Orders	3				3										6	$ 903
6.6 Prepare As-Built Plans	2			4											6	$ 922