

SUBCONSULTANT MANHOURLY WORKSHEET SUMMARY

COMPANY: Value Management Strategies	SCOPE OF WORK: Value Engineering Study	PHASE: All Phases
PROJECT: I-10 Jackson IC - Project Report & Environmental Document (PA&ED)		DATE: September 12, 2017

TASK	PRINCIPAL - G/ALC	TEAM LEADER	PROJECT COORDINATOR	TECHNICAL EDITOR	HOURS
	\$361.65	\$223.86	\$168.35	\$97.80	
	8	126	12	44	190

PHASE TOTALS

PHASE I	8	126	12	44
PHASE II				
PHASE III				
PHASE IV				

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: ESA Associates	SCOPE OF WORK: Environmental Lead	PHASE: All Phases
PROJECT: I-10 Jackson IC - Project Report & Environmental Document (PA&ED)		DATE: September 12, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
	Director III	381	@ \$71.36	\$27,188.16
	Director II	8	@ \$60.26	\$482.08
	Managing Associate II	156	@ \$47.22	\$7,366.32
	Managing Associate I	116	@ \$41.07	\$4,764.12
	Sales Associate II	541	@ \$37.61	\$20,347.01
	Sales Associate I	174	@ \$33.28	\$5,790.72
	Associate II	742	@ \$28.84	\$21,399.28
	Associate I	116	@ \$23.46	\$2,721.36
Graphics/WP	Project Technician III	154	@ \$39.45	\$6,075.30
	Project Technician II	18	@ \$30.88	\$555.84

TOTAL HOURS **2,406** TOTAL DIRECT LABOR **\$96,690.19**

MULTIPLIERS

ESCALATION @	(Rates Vary by Phase)	
OVERHEAD @	205.73% (of Direct Labor + Escalation)	\$198,920.73
PAYROLL ADDITIVES @	(of Direct Labor + Escalation)	
PROFIT (FIXED FEE) @	10.0% (of Direct Labor + Escalation + Overhead + Payroll Additives)	\$29,561.09

TOTAL MULTIPLIERS **\$228,481.82**

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Printing/Reproduction	1	@	\$300.00	\$300.00
Document and Map Reproductions (CD + Digital Photo)	1	@	\$4,500.00	\$4,500.00
Postage and Deliveries	1	@	\$550.00	\$550.00
Mileage	4215	@	\$0.54	\$2,255.03
ISA Database Search	1	@	\$500.00	\$500.00
EIC	1	@	\$600.00	\$600.00
EDR	1	@	\$800.00	\$800.00
10% Fee on Reimbursable	1	@	\$950.50	\$950.50
Cogstone Paleontological Identification & Evaluation Report	1	@	\$8,000.55	\$8,000.55
ESA Equipment Usage				
Computer Time (GIS)	2	@	\$15.00	\$30.00
Trimble GPS	2	@	\$75.00	\$150.00
Noise Meter	1	@	\$1,500.00	\$1,500.00

TOTAL ODC'S **\$20,136.08**

TOTAL \$345,308.08

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: ESA Associates	SCOPE OF WORK: Environmental Lead	PHASE: Phase I
PROJECT: I-10 Jackson IC - Project Report & Environmental Document (PA&ED)		DATE: September 12, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
	Director III	381	@ \$71.36	\$27,188.16
	Director II	8	@ \$60.26	\$482.08
	Managing Associate II	156	@ \$47.22	\$7,366.32
	Managing Associate I	116	@ \$41.07	\$4,764.12
	Sales Associate II	541	@ \$37.61	\$20,347.01
	Sales Associate I	174	@ \$33.28	\$5,790.72
	Associate II	742	@ \$28.84	\$21,399.28
	Associate I	116	@ \$23.46	\$2,721.36
Graphics/WP	Project Technician III	154	@ \$39.45	\$6,075.30
	Project Technician II	18	@ \$30.88	\$555.84
TOTAL HOURS		2,406	TOTAL DIRECT LABOR	\$96,690.19

MULTIPLIERS

ESCALATION @	(of Direct Labor)	
OVERHEAD @	205.73% (of Direct Labor + Escalation)	\$198,920.73
PAYROLL ADDITIVES @	(of Direct Labor + Escalation)	
PROFIT (FIXED FEE) @	10.0% (of Direct Labor + Escalation + Overhead + Payroll Additives)	\$29,561.09
TOTAL MULTIPLIERS		\$228,481.82

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Printing/Reproduction	1	@	\$300.00	\$300.00
Document and Map Reproductions (CD + Digital Photo)	1	@	\$4,500.00	\$4,500.00
Postage and Deliveries	1	@	\$550.00	\$550.00
Mileage	4215	@	\$0.54	\$2,255.03
ISA Database Search	1	@	\$500.00	\$500.00
EIC	1	@	\$600.00	\$600.00
EDR	1	@	\$800.00	\$800.00
10% Fee on Reimbursable	1	@	\$950.50	\$950.50
Cogstone Paleontological Identification & Evaluation Report	1	@	\$8,000.55	\$8,000.55
ESA Equipment Usage				
Computer Time (GIS)	2	@	\$15.00	\$30.00
Trimble GPS	2	@	\$75.00	\$150.00
Noise Meter	1	@	\$1,500.00	\$1,500.00
TOTAL ODC'S				\$20,136.08

TOTAL \$345,308.08

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: ESA Associates	SCOPE OF WORK: Environmental Lead	PHASE: Phase I
PROJECT: I-10 Jackson IC - Project Report & Environmental Document (PA&ED)		DATE: September 12, 2017

DIRECTOR III	DIRECTOR II	MANAGING ASSOCIATE I	MANAGING ASSOCIATE II	SALES ASSOCIATE I	SALES ASSOCIATE II	ASSOCIATE I	ASSOCIATE II	PROJECT TECHNICIAN III	PROJECT TECHNICIAN II	HOURS	COST
\$230.99	\$202.66	\$158.80	\$138.12	\$126.48	\$111.92	\$96.99	\$76.90	\$132.67	\$103.85		

Total Manhours 381 8 156 116 116 541 174 742 116 154 18 **2,406**

Task	381	8	156	116	116	541	174	742	116	154	18	2,406
Technical Reports												
Visual/Aesthetics												
Visual Impact Memorandum	2			16	4					2		24
Cultural Resources												
APE Map			4			4					4	12
Records and Literature Search			10			16					2	28
Native American Consultation					2							2
Archaeological Survey Report					36		12				2	52
Historical Resources Evaluation Report		4			56		24				2	88
Historical Properties Survey Report		4	2		20			6			6	38
Hazardous Waste/Materials												
Initial Site Assessment	4			40						4		48
Air Quality												
Air Quality Assessment	8		24				40				2	74
Air Quality Conformity Report	6		16				24					46
Transportation Air Quality Conformity Checklist	2		16				32					50
Noise												
Noise Study Report (NDR)	24		50			100			60		24	318
Noise Abatement Decision Report (NADR)	12		16			60						88
Biological Resources												
Natural Environmental Study - Minimal Impact	2				32		3				1	38
Delimitation of Jurisdictional Waters	2					40	5				1	48

SUBCONSULTANT MANHOOR WORKSHEET

COMPANY: **ESA Associates** SCOPE OF WORK: **Environmental Lead** PHASE: **Phase I**
 PROJECT: **I-10 Jackson IC - Project Report & Environmental Document (PA&ED)** DATE: **September 12, 2017**

TASK	DIRECTOR III		DIRECTOR II		MANAGING ASSOCIATE I		MANAGING ASSOCIATE II		SALES ASSOCIATE I		SALES ASSOCIATE II		ASSOCIATE I		ASSOCIATE II		PROJECT TECHNICIAN III		PROJECT TECHNICIAN II		HOURS	COST	
Environmental Documentation																							
Scoping Meeting	8			8																		24	\$ 3,801
Categorical Exemption/Categorical Exclusion (CE/CE)																							
Environmental Document (OPTIONAL)																							
Administrative Draft Environmental Document																							
Proposed Project Introduction	1																					11	\$ 1,340
Purpose and Need	1																					11	\$ 1,340
Project Description	1																					11	\$ 1,340
Project Alternatives	1																					11	\$ 1,340
Permits and Approvals Needed	1																					11	\$ 1,340
Affected Environment, Environmental Consequences, and Avoidance, Minimization, and/or Mitigation Measures																						6	\$ 826
Land Use	2																						
Parks and Recreational Facilities	2																					24	\$ 2,921
Growth	2																					24	\$ 2,921
Farmlands/Timberlands	2																					24	\$ 2,921
Community Impacts	2																					28	\$ 3,309
Utilities/Emergency Services	2																					24	\$ 2,921
Traffic and Transportation/Pedestrian and Bicycle Facilities	2																					24	\$ 2,921
Visual/Aesthetics	2																					24	\$ 2,921
Cultural Resources	2																					24	\$ 2,921
Hydrology and Floodplain	2																					24	\$ 2,921
Water Quality and Storm Water Runoff	2																					24	\$ 2,921
Geology/Soils/Seismic/Topography	2																					24	\$ 2,921
Paleontology	2																					24	\$ 2,921
Hazardous Waste/Materials	2																					24	\$ 2,921
Air Quality	2			8																		48	\$ 5,336

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: **ESA Associates** SCOPE OF WORK: **Environmental Lead** PHASE: **Phase I**
 PROJECT: **I-10 Jackson IC - Project Report & Environmental Document (PA&ED)** DATE: **September 12, 2017**

TASK	PERSONNEL										HOURS	COST
	DIRECTOR III	DIRECTOR II	MANAGING ASSOCIATE II	MANAGING ASSOCIATE I	SALES ASSOCIATE II	SALES ASSOCIATE I	ASSOCIATE II	ASSOCIATE I	PROJECT TECHNICIAN III	PROJECT TECHNICIAN II		
Noise	2	4	4	4	4	16	16	2	2	2	30	\$ 3,646
Energy	2	4									24	\$ 2,643
Natural Communities	2		4			12					20	\$ 2,415
Wetlands and Other Waters	2		4			12					20	\$ 2,415
Plant Species	2		4			12					20	\$ 2,415
Animal Species	2		4			12					20	\$ 2,415
Threatened and Endangered Species	2		4			12					20	\$ 2,415
Invasive Species	1		2			6					11	\$ 1,340
California Environmental Quality Act (CEQA) Evaluation												
Determining Significance under CEQA	4		20			32					58	\$ 6,859
CEQA Environmental Checklist	2		4			8					16	\$ 2,027
Climate Change	2	2	8	12	16	16					42	\$ 5,238
Comments and Coordination	2		10			20					34	\$ 3,950
List of Preparers	1		2			4					9	\$ 1,146
Distribution List	1		2			4					9	\$ 1,146
Appendices	2		6			8					18	\$ 2,280
Draft Environmental Document	40		4	40	40	40					136	\$ 20,683
Circulation and Public Hearing	20		20			32					76	\$ 10,964
Prepare Responses to Comments	10		20			20					52	\$ 7,135
Final Environmental Document (MND/FONSI)	20		40			40					112	\$ 15,331
Notice of Determination & Notice of Availability	4		8			12					28	\$ 3,666
Mitigation, Monitoring, and Reporting Plan (ECR)	4		8			20					36	\$ 4,442
PDT Meetings (assumes 16 meetings)	96										96	\$ 23,039
Stakeholders & other Coordination Meetings (assumes 24)	24										24	\$ 5,760
Scheduling/Progress Reporting & Invoicing	20		40								60	\$ 10,325
Value Engineering	8										8	\$ 1,920

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: TranSystems	SCOPE OF WORK: Project Report & Environmental Document (PA&ED)	PHASE: All Phases
PROJECT: I-10 Jackson IC - Project Report & Environmental Document (PA&ED)		DATE: September 12, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
	Project Manager	432	@	\$108.87	\$47,031.84
	Sr. Principal Engineer			\$108.18	
	Sr. Principal Engineer	92	@	\$95.00	\$8,740.00
	Sr. Project Engineer	152	@	\$76.20	\$11,582.40
	Sr. Project Engineer	644	@	\$69.50	\$44,758.00
	Sr. Project Engineer	693	@	\$59.04	\$40,914.72
	Project Engineer			\$46.04	
	Project Engineer	200	@	\$45.30	\$9,060.00
	Roadway/Engineer	376	@	\$35.22	\$13,242.72
	Roadway/Engineer			\$27.00	
	Project Engineer - Structures			\$57.12	
	Project Engineer - Structures			\$28.88	

TOTAL HOURS **2,589** TOTAL DIRECT LABOR **\$175,329.68**

MULTIPLIERS

ESCALATION @		(Rates Vary by Phase)	
OVERHEAD @	150.50%	(of Direct Labor + Escalation)	\$263,871.17
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$43,920.08

TOTAL MULTIPLIERS **\$307,791.25**

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mileage	7200	@	\$0.54	\$3,852.00
Travel	1	@	\$500.00	\$500.00
Plots	5000	@	\$0.50	\$2,500.00
Reproduction/Commercial Printing	76380	@	\$0.10	\$7,638.00
Mail Courier	30	@	\$17.00	\$510.00

TOTAL ODC'S **\$15,000.00**

TOTAL **\$498,120.93**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: TranSystems	SCOPE OF WORK: Project Report & Environmental Document (PA&ED)	PHASE: Phase I
PROJECT: I-10 Jackson IC - Project Report & Environmental Document (PA&ED)		DATE: September 12, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
	Project Manager	432	@ \$108.87	\$47,031.84
	Sr. Principal Engineer		\$108.18	
	Sr. Principal Engineer	92	@ \$95.00	\$8,740.00
	Sr. Project Engineer	152	@ \$76.20	\$11,582.40
	Sr. Project Engineer	644	@ \$69.50	\$44,758.00
	Sr. Project Engineer	693	@ \$59.04	\$40,914.72
	Project Engineer		\$46.04	
	Project Engineer	200	@ \$45.30	\$9,060.00
	Roadway/Engineer	376	@ \$35.22	\$13,242.72
	Roadway/Engineer		\$27.00	
	Project Engineer - Structures		\$57.12	
	Project Engineer - Structures		\$28.88	

TOTAL HOURS **2,589** TOTAL DIRECT LABOR **\$175,329.68**

MULTIPLIERS

ESCALATION @		(of Direct Labor)	
OVERHEAD @	150.50%	(of Direct Labor + Escalation)	\$263,871.17
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$43,920.08

TOTAL MULTIPLIERS **\$307,791.25**

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mileage	7200	@	\$0.54	\$3,852.00
Travel	1	@	\$500.00	\$500.00
Plots	5000	@	\$0.50	\$2,500.00
Reproduction/Commercial Printing	76380	@	\$0.10	\$7,638.00
Mail Courier	30	@	\$17.00	\$510.00

TOTAL ODC'S **\$15,000.00**

TOTAL \$498,120.93

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: TransSystems		SCOPE OF WORK: Project Report & Environmental Document (PA&ED)		PHASE: Phase I	
PROJECT: I-10 Jackson IC - Project Report & Environmental Document (PA&ED)		DATE: September 12, 2017			

PROJECT MANAGER	\$298.99	432	\$298.09	92	\$261.77	152	644	693	200	\$157.30	376	2,589	\$79.58
-----------------	----------	-----	----------	----	----------	-----	-----	-----	-----	----------	-----	-------	---------

DESCRIPTION	432	92	152	644	693	200	376	2,589	HOURS	COST
Total Manhours	432	92	152	644	693	200	376	2,589		
Attend Kick-off & PDT Meetings	60								60	\$ 17,999
Prepare/Review PDT Meeting Minutes										
Prepare/Review Monthly Progress Reports/Invoices										
Prepare Project Schedule & Update Monthly										
Maintain Complete Project Files/Communication/Coordination										
Quality Control/Quality Assurance	40	60	40						140	\$ 36,105
Data Collection & Review of Existing Project Informatic	8			16					24	\$ 5,464
Field Reviews	16			8	8				32	\$ 7,633
Design Surveys/Digital Mapping	8			16					24	\$ 5,464
Drainage Studies: Hydraulics/Hydrology Concepts										
Traffic Forecasts/Modeling										
Traffic Operational Analysis (Included in Task 2.4)										
Utility Coordination & Relocation Concepts	40			80	80				200	\$ 40,335
Geotechnical Studies (Prelim. Foundation & Materials Rpt.)										
Geotechnical Input to Environmental Document										
Fault Rupture Investigation										
Structures Advance Planning Studies										
Right of Way Requirements	16	8	8	80	80	80	160		432	\$ 62,423
Update Right of Way Data Sheet	16								16	\$ 4,800
Geometric Plans for Project Alternatives	40		40	60	60	120	120		440	\$ 68,275
Cost Estimates for Project Alternatives	24		16	60	60				160	\$ 31,811
Preliminary Transportation Management Plan (TMP)										
Storm Water Data Report										
HOV Report										
Design Exception Fact Sheets	60	16	16	120	101		96		409	\$ 74,276
Geometric Approval Drawings (GAD)	40	8	8	100	160				316	\$ 60,954
Preliminary Draft Project Report										
Final Draft Project Report										
Draft Final Project Report										
Final Project Report										

PROJECT MANAGER
 SR. PRINCIPAL ENGINEER
 SR. PRINCIPAL ENGINEER
 SR. PRINCIPAL ENGINEER
 SR. PROJECT ENGINEER
 SR. PROJECT ENGINEER
 SR. PROJECT ENGINEER
 PROJECT ENGINEER
 PROJECT ENGINEER
 ROADWAY ENGINEER
 ROADWAY ENGINEER
 PROJECT ENGINEER - STRUCTURES
 PROJECT ENGINEER - STRUCTURES
 PROJECT ENGINEER - STRUCTURES

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: PACE Advanced Water Engineering	SCOPE OF WORK: Bridge H&H / Scour Study	PHASE: All Phases
PROJECT: I-10 Jackson IC - Project Report & Environmental Document (PA&ED)		DATE: September 12, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
	Sr. Project Manager / Sr. Consulting Engineer	8	@ \$70.91	\$567.28
	Project Manager / Consulting Engineer	98	@ \$65.46	\$6,415.08
	Project Engineer / Design Engineer II	208	@ \$49.46	\$10,287.68
	Sr. CAD Designer	30	@ \$43.64	\$1,309.20
	Project Coordinator / Admin Support	28	@ \$29.09	\$814.52

TOTAL HOURS **372** TOTAL DIRECT LABOR **\$19,393.76**

MULTIPLIERS

ESCALATION @	(Rates Vary by Phase)	
OVERHEAD @	165.00% (of Direct Labor + Escalation)	\$31,999.70
PAYROLL ADDITIVES @	(of Direct Labor + Escalation)	
PROFIT (FIXED FEE) @	10.0% (of Direct Labor + Escalation + Overhead + Payroll Additives)	\$5,139.35

TOTAL MULTIPLIERS **\$37,139.05**

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT

TOTAL ODC'S

TOTAL \$56,532.81

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: PACE Advanced Water Engineering	SCOPE OF WORK: Bridge H&H / Scour Study	PHASE: Phase I
PROJECT: I-10 Jackson IC - Project Report & Environmental Document (PA&ED)		DATE: September 12, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
	Sr. Project Manager / Sr. Consulting Engineer	8	@ \$70.91	\$567.28
	Project Manager / Consulting Engineer	98	@ \$65.46	\$6,415.08
	Project Engineer / Design Engineer II	208	@ \$49.46	\$10,287.68
	Sr. CAD Designer	30	@ \$43.64	\$1,309.20
	Project Coordinator / Admin Support	28	@ \$29.09	\$814.52
TOTAL HOURS		372	TOTAL DIRECT LABOR	\$19,393.76

MULTIPLIERS

ESCALATION @	(of Direct Labor)	
OVERHEAD @	165.00% (of Direct Labor + Escalation)	\$31,999.70
PAYROLL ADDITIVES @	(of Direct Labor + Escalation)	
PROFIT (FIXED FEE) @	10.0% (of Direct Labor + Escalation + Overhead + Payroll Additives)	\$5,139.35
TOTAL MULTIPLIERS		\$37,139.05

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT

TOTAL ODC'S

TOTAL **\$56,532.81**

SUBCONSULTANT MANHOUR WORKSHEET SUMMARY

COMPANY: PACE Advanced Water Engineering		SCOPE OF WORK: Bridge H&H / Scour Study	PHASE: All Phases
PROJECT: I-10 Jackson IC - Project Report & Environmental Document (PA&E)			DATE: September 12, 2017

TASK	SR PROJECT MANAGER / SR CONSULTING ENGINEER	PROJECT MANAGER / CONSULTING ENGINEER	PROJECT ENGINEER / DESIGN	SF. CAD DESIGNER	PROJECT COORDINATOR / ADMIN SUPPORT	HOURS	
	8	98	208	\$144.18	\$127.21	\$84.80	28
	8	98	208				28
							30
							30
							28
							372

PHASE TOTALS

PHASE I	8	98	208				28
PHASE II							30
PHASE III							30
PHASE IV							28

372

SUBCONSULTANT MANHOURLY WORKSHEET

COMPANY: PACE Advanced Water Engineering
 PROJECT: I-10 Jackson IC - Project Report & Environmental Document (PA&ED)
 SCOPE OF WORK: Bridge H&H / Scour Study
 PHASE: Phase I
 DATE: September 12, 2017

TASK	SR PROJECT MANAGER / CONSULTING ENGINEER	PROJECT MANAGER / CONSULTING ENGINEER	DESIGN ENGINEER / PROJECT ENGINEER II	SR CAD DESIGNER / PROJECT COORDINATOR / ADMIN SUPPORT	HOURS	COST
	SR PROJECT MANAGER / CONSULTING ENGINEER	PROJECT MANAGER / CONSULTING ENGINEER	DESIGN ENGINEER / PROJECT ENGINEER II	SR CAD DESIGNER / PROJECT COORDINATOR / ADMIN SUPPORT		

\$206.70 \$190.82 \$144.18 \$127.21 \$84.80

Total Manhours	8	98	208	30	28	372
-----------------------	----------	-----------	------------	-----------	-----------	------------

TASK	SR PROJECT MANAGER / CONSULTING ENGINEER	PROJECT MANAGER / CONSULTING ENGINEER	DESIGN ENGINEER / PROJECT ENGINEER II	SR CAD DESIGNER / PROJECT COORDINATOR / ADMIN SUPPORT	HOURS	COST
Data Collection / Research / Initial Agency Coord						
Data Collection and Research		4			4	\$ 577
Field Reconnaissance		4			4	\$ 763
Initial CVWD Meeting / Discussion		4			4	\$ 763
Channel Base Map Data / GIS / CAD			4		4	\$ 509
Review data and Identify Data gaps			4		4	\$ 577
Baseline Channel Hydraulic Model						
Review and Run Existing HEC-RAS Mode / cleanup	1	4			5	\$ 768
Develop HEC-RAS Work Map	1		6		7	\$ 954
Additional X-section Addition to Model			8		8	\$ 1,153
Sensitivity analysis Model Parameters / Results Comparison			8		8	\$ 1,153
Proposed Alternative Bridge Impacts						
Bridge Alternatives Geometry and Cross section development			8	4	12	\$ 1,662
Bridge Alternative HEC-RAS Model No.1			4		4	\$ 577
Bridge Alternative HEC-RAS Model No.2			4		4	\$ 577
Additional Separate Bridge Hydraulics Calculations			8		8	\$ 1,153
Sensitivity Analysis of Bridge Hydraulic Parameters			6		6	\$ 865
Hydraulic Impacts Analysis			4		4	\$ 577
Propose Bridge Scour Analyses						
Sediment data analysis / Geotechnical Information			4		4	\$ 577
Existing conditions bridge local scour			2		2	\$ 288
Proposed Alternative Local Scour			12		12	\$ 1,730
Long Term General Scour Analysis (multiple procedures)	2	16			18	\$ 2,688
Investigate historical changes Streambed - Long Term	2	8			10	\$ 1,535
Equilibrium Slope Analysis Calculations			8		8	\$ 1,153
Summary of recommended Total Scour	2	8			10	\$ 1,535
Assessment Bridge / Channel Improvements						
Lining evaluation design parameters	2	8			10	\$ 1,535
Channel Improvement Recommendations			12		12	\$ 1,730
Layout of Channel geometry DELETED						
Preliminary Vertical Profile DELETED						
Preliminary Layout of Additional Features / Layout DELETED						

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: David Evans & Associates, Inc.	SCOPE OF WORK: Landscape	PHASE: All Phases
PROJECT: I-10 Jackson IC - Project Report & Environmental Document (PA&ED)		DATE: September 25, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
	Senior Landscape Architect	73	@ \$66.00	\$4,818.00
	Project Landscapae Architect	56	@ \$46.00	\$2,576.00
	Landscape Designer	56	@ \$34.00	\$1,904.00
	Irrigation Designer	36	@ \$38.00	\$1,368.00
	Landscape Architecture CADD	60	@ \$27.00	\$1,620.00
	Landscape Architecture Graphics	12	@ \$25.00	\$300.00
	Administrative / Accounting	12	@ \$32.00	\$384.00

TOTAL HOURS **305** TOTAL DIRECT LABOR **\$12,970.00**

MULTIPLIERS

ESCALATION @	(Rates Vary by Phase)	
OVERHEAD @	174.90% (of Direct Labor + Escalation)	\$22,684.53
PAYROLL ADDITIVES @	(of Direct Labor + Escalation)	
PROFIT (FIXED FEE) @	10.0% (of Direct Labor + Escalation + Overhead + Payroll Additives)	\$3,565.45
TOTAL MULTIPLIERS		\$26,249.98

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mileage	700	@	\$0.54	\$374.50
Printing & Reproductions	1	@	\$300.00	\$300.00
Delivery Service	4	@	\$60.00	\$240.00
Artist	1	@	\$8,000.00	\$8,000.00

TOTAL ODC'S **\$8,914.50**

TOTAL **\$48,134.48**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: David Evans & Associates, Inc.	SCOPE OF WORK: Landscape	PHASE: Phase I
PROJECT: I-10 Jackson IC - Project Report & Environmental Document (PA&ED)		DATE: September 25, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
	Senior Landscape Architect	73	@ \$66.00	\$4,818.00
	Project Landscapae Architect	56	@ \$46.00	\$2,576.00
	Landscape Designer	56	@ \$34.00	\$1,904.00
	Irrigation Designer	36	@ \$38.00	\$1,368.00
	Landscape Architecture CADD	60	@ \$27.00	\$1,620.00
	Landscape Architecture Graphics	12	@ \$25.00	\$300.00
	Administrative / Accounting	12	@ \$32.00	\$384.00

TOTAL HOURS **305** TOTAL DIRECT LABOR **\$12,970.00**

MULTIPLIERS

ESCALATION @	(of Direct Labor)	
OVERHEAD @	174.90% (of Direct Labor + Escalation)	\$22,684.53
PAYROLL ADDITIVES @	(of Direct Labor + Escalation)	
PROFIT (FIXED FEE) @	10.0% (of Direct Labor + Escalation + Overhead + Payroll Additives)	\$3,565.45

TOTAL MULTIPLIERS **\$26,249.98**

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mileage	700	@	\$0.54	\$374.50
Printing & Reproductions	1	@	\$300.00	\$300.00
Delivery Service	4	@	\$60.00	\$240.00
Artist	1	@	\$8,000.00	\$8,000.00

TOTAL ODC'S **\$8,914.50**

TOTAL **\$48,134.48**

SUBCONSULTANT MANHOOUR WORKSHEET SUMMARY

COMPANY: David Evans & Associates, Inc.		SCOPE OF WORK: Landscape	PHASE: All Phases
PROJECT: I-10 Jackson IC - Project Report & Environmental Document (PA&E)			DATE: September 25, 2017

K&S T	SENIOR LANDSCAPE ARCHITECT	56	\$139.10	56	\$102.81	36	\$81.65	12	\$96.76	HOURS
	PROJECT LANDSCAPE ARCHITECT	56		36		60		12		
	LANDSCAPE ARCHITECT	56		36		60		12		
	PROJECT LANDSCAPE ARCHITECT	56		36		60		12		
	LANDSCAPE ARCHITECT	56		36		60		12		
	LANDSCAPE ARCHITECT	56		36		60		12		
	LANDSCAPE ARCHITECT	56		36		60		12		
	LANDSCAPE ARCHITECT	56		36		60		12		
	LANDSCAPE ARCHITECT	56		36		60		12		
	LANDSCAPE ARCHITECT	56		36		60		12		

PHASE TOTALS	73	56	56	36	60	12	12	305
--------------	----	----	----	----	----	----	----	-----

PHASE I	73	56	56	36	60	12	12	305
PHASE II								
PHASE III								
PHASE IV								

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Earth Mechanics, Inc (EMI)	SCOPE OF WORK: Geotechnical Studies	PHASE: All Phases
PROJECT: I-10 Jackson IC - Project Report & Environmental Document (PA&ED)		DATE: September 14, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Lino Cheang	Principal	100	@ \$82.00	\$8,200.00
Alaheswaran Thurairajah	Project Engineer	236	@ \$41.50	\$9,794.00
Michael Hoshiyama	Project Geologist	30	@ \$39.80	\$1,194.00
Chavinpat Pongsakornapatara	Staff Engineer	132	@ \$35.00	\$4,620.00
TOTAL HOURS		498	TOTAL DIRECT LABOR	\$23,808.00

MULTIPLIERS

ESCALATION @	(Rates Vary by Phase)	
OVERHEAD @	171.30% (of Direct Labor + Escalation)	\$40,783.10
PAYROLL ADDITIVES @	(of Direct Labor + Escalation)	
PROFIT (FIXED FEE) @	10.0% (of Direct Labor + Escalation + Overhead + Payroll Additives)	\$6,459.11
TOTAL MULTIPLIERS		\$47,242.21

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mail/Courier	2	@	\$25.00	\$50.00
Permit Fee	1	@	\$1,000.00	\$1,000.00
ADL Testing	1	@	\$5,000.00	\$5,000.00

TOTAL ODC'S \$6,050.00

TOTAL **\$77,100.21**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Earth Mechanics, Inc (EMI)	SCOPE OF WORK: Geotechnical Studies	PHASE: Phase I
PROJECT: I-10 Jackson IC - Project Report & Environmental Document (PA&ED)		DATE: September 14, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Lino Cheang	Principal	100	@ \$82.00	\$8,200.00
Alaheswaran Thurairajah	Project Engineer	236	@ \$41.50	\$9,794.00
Michael Hoshiyama	Project Geologist	30	@ \$39.80	\$1,194.00
Chavinpat Pongsakornapatara	Staff Engineer	132	@ \$35.00	\$4,620.00

TOTAL HOURS **498** TOTAL DIRECT LABOR **\$23,808.00**

MULTIPLIERS

ESCALATION @		(of Direct Labor)	
OVERHEAD @	171.30%	(of Direct Labor + Escalation)	\$40,783.10
PAYROLL ADDITIVES @		(of Direct Labor + Escalation)	
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$6,459.11

TOTAL MULTIPLIERS **\$47,242.21**

OTHER DIRECT COSTS

*** Billed at Actual Cost ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Mail/Courier	2	@	\$25.00	\$50.00
Permit Fee	1	@	\$1,000.00	\$1,000.00
ADL Testing	1	@	\$5,000.00	\$5,000.00

TOTAL ODC'S **\$6,050.00**

TOTAL **\$77,100.21**

