

SUBCONSULTANT MANHOOR WORKSHEET

COMPANY: WSP Parsons Brinckerhoff	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Six Chuckwalla Valley Road and Railroad Avenue Bridges [BRLO-5956(228), BRLO-5956(229), BRLO-5956(227), BRLO-5956(226), BRLO-5956(225)]	DATE: March 27, 2017	

TASK	496	324	897	672	47	158	66	90	60	53	61	5	174	3,103	HOURS	COST
1.1 Project Management																
1.2 Project Team Meetings																
1.3 Quality Control and Quality Assurance (QA/QC)																
2.0 Research and Data Gathering																
2.1 Collect and Review Existing Information																
2.2 Conduct Field Review																
3.0 Preliminary Engineering																
3.1 Traffic Study (Technical Memorandum/Traffic Summary)																
3.2 Preliminary Utility Mapping																
3.3 Permits																
3.4 Surveying and Right-of-Way Mapping (by County)																
3.5 Preliminary Geotechnical Studies																
3.6 Right-of-Way Requirements Map																
3.7 Geometric Approval Drawings																
3.8 Structure Advance Planning Study																
3.9 Hydrologic, Hydraulic and Scour Studies																
3.10 Advisory and Mandatory Fact Sheets																
3.11 Engineer's Estimate																
4.0 Environmental Clearance & Documentation																
4.1 Project Initiation	144							90							234	\$ 44,614
4.2 Preliminary Environmental Study (PES)	36	48	112	120					20			5			341	\$ 59,263
4.3 Technical Studies																
4.3.1 Hazardous Waste (Initial Site Assessment)										15	16				78	\$ 12,335
4.3.2 Preliminary Site Assessment (Step-2)																
4.3.3 Water Quality Assessment Studies	36	12		24											72	\$ 13,524
4.3.4 Natural Environmental Study	36	12		24											72	\$ 13,524
4.3.5 Wetland Delineation and Assessment																
4.3.6 Section 4(f) Evaluation (Individual Finding)	16	12	25			14	18				45				144	\$ 23,125
4.3.7 Visual Resources (Minor Visual Impact Assessment)	24	36	208				48		40				174		554	\$ 95,911
4.3.8 Culture Resources Study (APE/ASR/HRER/HPSR)																
APE	12	24				24									60	\$ 9,212

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: WSP Parsons Brinckerhoff	SCOPE OF WORK: Environmental	PHASE: All Phases
PROJECT: Replacement of Railroad Avenue Bridge over Fornat Wash [Br. No. 56C0099, FPN BRLO-5956(228)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Lorraine Ahlquist	Project Manager/Environmental Lead	112	@ \$80.93	\$9,064.16
Larissa Kling Rawlins	Lead Planner	52	@ \$55.71	\$2,896.92
Debra Meier	Senior Planner	152	@ \$71.45	\$10,860.40
Maisoon Afaneh	Project Planner	160	@ \$48.00	\$7,680.00
Ivy Edmonds - Hess	Lead Planner		\$62.37	
David VanGoethem	Senior Engineer		\$66.58	
Hollis Lawrence	Archeologist	24	@ \$38.18	\$916.32
Jeff Howard	Senior Planner	8	@ \$82.47	\$659.76
Cynthia Cavazos	Project Accountant	15	@ \$44.03	\$660.45
Theresa Dickerson	Senior Planner		\$55.50	
Lesley Mauer	Environmental Analyst / Planner		\$36.06	
Micheal Lieu	Environmental Analyst / Planner		\$40.47	
Edward Tadross	Lead Planner	5	@ \$56.83	\$284.15
Douglas Villars	Senior Technical Specialist	35	@ \$44.36	\$1,552.60
TOTAL HOURS		563	TOTAL DIRECT LABOR	\$34,574.76

MULTIPLIERS

ESCALATION @	2.50%	(of Direct Labor)	\$864.37
FRINGE BENEFIT @	33.53%	(of Direct Labor + Escalation)	\$11,882.74
GENERAL AND ADMINISTRATIVE OVERHEAD @	119.85%	(of Direct Labor + Escalation)	\$42,473.80
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$8,979.57
TOTAL MULTIPLIERS			\$64,200.47

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction	1	LS @	\$508.10	\$508.10
Mailing and Special Delivery	1	LS	\$522.20	\$522.20
Mileage and Travel	1	LS	\$2,247.00	\$2,247.00
Miscellaneous (Record Searches)	1	LS	\$3,000.00	\$3,000.00

TOTAL ODC'S **\$6,277.30**

TOTAL **\$105,052.53**

ESTIMATE OF OTHER DIRECT COST (ODC) ITEMS
REPLACEMENT OF RAILROAD AVENUE BRIDGE OVER FORNAT WASH
(BR. NO. 56C0099)

FPN: BRLO-5956(228)

Consultant: WSP Parsons Brinckerhoff

Contract No.:

Date: 3/27/2017

Reproduction Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
8.5"X11" B/W	\$0.04	1680	\$67.20
8.5"X11" COLOR	\$0.25	400	\$100.00
11"X17" B/W	\$0.09	170	\$15.30
11"X17" COLOR	\$0.29	90	\$26.10
24"X36" B/W	\$8.00	25	\$200.00
24"X36" COLOR	\$10.00	9	\$90.00
30"X42" B/W	\$12.00	0	\$0.00
30"X42" COLOR	\$15.00	0	\$0.00
BINDERS (3-RING)	\$4.00	1	\$4.00
TAB	\$2.75	2	\$5.50
SUBTOTAL COST			\$508.10
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Priority Mail	\$6.65	68	\$452.20
FedEx	\$35.00	2	\$70.00
	\$0.00	0	\$0.00
SUBTOTAL COST			\$522.20
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	4200	\$2,247.00
	\$0.00	0	\$0.00
TOTAL BUDGET			\$2,247.00
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
EDR	\$3,000.00	1	\$3,000.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
SUBTOTAL COST			\$3,000.00
TOTAL ODCs			\$6,277.30

NOTES:

1. ODC items should be based on actual costs and supported by historical data and other documentation.
2. ODC items that would be considered "tools of the trade" are not reimbursable.
3. ODC items should be consistently billed directly to all clients, not just when client will pay for them as a direct cost.
4. ODC items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in overhead rate.

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: WSP Parsons Brinckerhoff	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Railroad Avenue Bridge over Fornat Wash [Br. No. 56C0099, FPN BRLO-5956(228)]	DATE: March 27, 2017	

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Lorraine Ahlquist	Project Manager/Environmental Lead	80	@	\$80.93	\$6,474.40
Larissa Kling Rawlins	Lead Planner	52	@	\$55.71	\$2,896.92
Debra Meier	Senior Planner	152	@	\$71.45	\$10,860.40
Maisoon Afaneh	Project Planner	112	@	\$48.00	\$5,376.00
Ivy Edmonds - Hess	Lead Planner			\$62.37	
David VanGoethem	Senior Engineer			\$66.58	
Hollis Lawrence	Archeologist	24	@	\$38.18	\$916.32
Jeff Howard	Senior Planner	8	@	\$82.47	\$659.76
Cynthia Cavazos	Project Accountant	15	@	\$44.03	\$660.45
Theresa Dickerson	Senior Planner			\$55.50	
Lesley Mauer	Environmental Analyst / Planner			\$36.06	
Micheal Lieu	Environmental Analyst / Planner			\$40.47	
Edward Tadress	Lead Planner	5	@	\$56.83	\$284.15
Douglas Villars	Senior Technical Specialist	35	@	\$44.36	\$1,552.60
TOTAL HOURS		483		TOTAL DIRECT LABOR	\$29,681.00

MULTIPLIERS

ESCALATION @	2.50%	(of Direct Labor)	\$742.03
FRINGE BENEFIT @	33.53%	(of Direct Labor + Escalation)	\$10,200.84
GENERAL AND ADMINISTRATIVE OVERHEAD @	119.85%	(of Direct Labor + Escalation)	\$36,462.00
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$7,708.59
TOTAL MULTIPLIERS			\$55,113.45

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1	LS	@	\$508.10	\$508.10
Mailing and Special Delivery	1	LS	@	\$522.20	\$522.20
Mileage and Travel	1	LS	@	\$2,247.00	\$2,247.00
Miscellaneous (Record Searches)	1	LS	@	\$3,000.00	\$3,000.00

TOTAL ODC'S **\$6,277.30**

TOTAL **\$91,071.75**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: WSP Parsons Brinckerhoff		SCOPE OF WORK: Plans, Specifications & Estimate (PS&E)		PHASE: Phase II
PROJECT: Replacement of Railroad Avenue Bridge over Fornat Wash [Br. No. 56C0099, FPN BRLO-5956(228)]			DATE: March 27, 2017	

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT	
Lorraine Ahlquist	Project Manager/Environmental Lead	32	@ \$80.93	\$2,589.76	
Larissa Kling Rawlins	Lead Planner		\$55.71		
Debra Meier	Senior Planner		\$71.45		
Maisoon Afaneh	Project Planner	48	@ \$48.00	\$2,304.00	
Ivy Edmonds - Hess	Lead Planner		\$62.37		
David VanGoethem	Senior Engineer		\$66.58		
Hollis Lawrence	Archeologist		\$38.18		
Jeff Howard	Senior Planner		\$82.47		
Cynthia Cavazos	Project Accountant		\$44.03		
Theresa Dickerson	Senior Planner		\$55.50		
Lesley Mauer	Environmental Analyst / Planner		\$36.06		
Micheal Lieu	Environmental Analyst / Planner		\$40.47		
Edward Tadross	Lead Planner		\$56.83		
Douglas Villars	Senior Technical Specialist		\$44.36		
		TOTAL HOURS	80	TOTAL DIRECT LABOR	\$4,893.76

MULTIPLIERS

ESCALATION @	2.50%	(of Direct Labor)	\$122.34
FRINGE BENEFIT @	33.53%	(of Direct Labor + Escalation)	\$1,681.90
GENERAL AND ADMINISTRATIVE OVERHEAD @	119.85%	(of Direct Labor + Escalation)	\$6,011.80
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$1,270.98
TOTAL MULTIPLIERS			\$9,087.02

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction		LS		
Mailing and Special Delivery		LS		
Mileage and Travel		LS		
Miscellaneous (Record Searches)		LS		

TOTAL ODC'S

TOTAL **\$13,980.78**

SUBCONSULTANT MANHOUR WORKSHEET SUMMARY

COMPANY: WSP Parsons Brinckerhoff	SCOPE OF WORK: Environmental	PHASE: All Phases
PROJECT: Replacement of Railroad Avenue Bridge over Fomat Wash [Br. No. 56C0089, FPN BRLO-5956(228)]		DATE: March 27, 2017

PERSONNEL	\$231.21	\$169.16	\$204.12	\$137.13	\$176.18	\$190.21	\$109.07	\$236.61	\$125.79	\$158.56	\$103.02	\$115.62	\$162.36	\$126.73	HOURS
MANAGER/ENVIRONMENTAL	52	52	152	160	24	8	8	15	15	35	5	5	35	563	
LEAD PLANNER	80	52	152	112	24	8	8	15	15	35	5	5	35	483	
PROJECT LEAD	32			48										80	
PHASE I															
PHASE II															
PHASE TOTALS	112	52	152	160	24	8	8	15	15	35	5	5	35	563	

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: WSP | Parsons Brinckerhoff

PROJECT: Replacement of Railroad Avenue Bridge over Fornat Wash [Br. No. 56C0099, FPN BRL0-5956(229)]

SCOPE OF WORK:

Preliminary Engineering & Environmental Documentation

PHASE:

Phase I

DATE:

March 27, 2017

MANAGEMENT LEAD	LEAD PLANNER	SENIOR PLANNER	PROJECT PLANNER	LEAD PLANNER	SENIOR ENGINEER	ARCHT. DGRST	SENIOR PLANNER	PROJECT ACCOUNTANT	SENIOR PLANNER	ENVIRONMENTAL ANALYST / PLANNER	ENVIRONMENTAL ANALYST / PLANNER	LEAD PLANNER	SENIOR TECHNICAL SPECIALIST	HOURS	COST
\$231.21	\$159.16	\$204.12	\$137.13	\$178.18	\$190.21	\$109.07	\$235.61	\$125.79	\$168.56	\$103.02	\$115.62	\$162.36	\$126.73	483	

Total Manhours 80 52 152 112 24 8 15 5 35 483

Task	80	52	152	112	24	8	15	5	35	483
1.1 Project Management										
1.2 Project Team Meetings										
1.3 Quality Control and Quality Assurance (QA/QC)										
2.0 Research and Data Gathering										
2.1 Collect and Review Existing Information										
2.2 Conduct Field Review										
3.0 Preliminary Engineering										
3.1 Traffic Study (Technical Memorandum/Traffic Summary)										
3.2 Preliminary Utility Mapping										
3.3 Permits										
3.4 Surveying and Right-of-Way Mapping (by County)										
3.5 Preliminary Geotechnical Studies										
3.6 Right-of-Way Requirements Map										
3.7 Geometric Approval Drawings										
3.8 Structure Advance Planning Study										
3.9 Hydrologic, Hydraulic and Scour Studies										
3.10 Advisory and Mandatory Fact Sheets										
3.11 Engineer's Estimate										
4.0 Environmental Clearance & Documentation										
4.1 Project Initiation	24									
4.2 Preliminary Environmental Study (PES)	6	8	20	20			15	5		39 \$ 7,436
4.3 Technical Studies										59 \$ 10,297
4.3.1 Hazardous Waste (Initial Site Assessment)										
4.3.2 Preliminary Site Assessment (Step-2)										
4.3.3 Water Quality Assessment Studies										
4.3.4 Natural Environmental Study	6	2		4						12 \$ 2,254
4.3.5 Wetland Delineation and Assessment	6	2		4						12 \$ 2,254
4.3.6 Section 4(f) Evaluation (Individual Finding)										
4.3.7 Visual Resources (Minor Visual Impact Assessment)	4	6	40			8			35	93 \$ 16,365
4.3.8 Culture Resources Study (APE/ASR/HRER/HPSR)										
APE	2	4								10 \$ 1,535
ASR										5 \$ 545
HRER										5 \$ 545
HPSR	2	4								8 \$ 1,317
4.3.9A Finding of Effect (FoE) (Step-2)										
4.3.9B Section 106 Memorandum of Agreement (MOA) (Step-2)	4					8				12 \$ 1,797

SUBCONSULTANT MANHOOUR WORKSHEET

COMPANY: WSP | Parsons Brinckerhoff

PROJECT:

Replacement of Railroad Avenue Bridge over Format Wash [Br. No. 56C0099, FPN BRLO-5856(228)]

SCOPE OF WORK: Preliminary Engineering & Environmental Documentation

PHASE: Phase I

DATE: March 27, 2017

TASK	MANAGER	ENVIRONMENTAL LEAD	LEAD PLANNER	SENIOR PLANNER	PROJECT PLANNER	LEAD PLANNER	ARCHOLOGIST	SENIOR ENGINEER	PROJECT ACCOUNTANT	SENIOR PLANNER	ENVIRONMENTAL ANALYST / PLANNER	ENVIRONMENTAL ANALYST / PLANNER	LEAD PLANNER	SENIOR TECHNICAL SPECIALIST	HOURS	COST
4.3.10 CEQA Notice of Exemption (NOE)	2		4	4	4										10	\$ 1,827
4.5 CEQA/NEPA Initial Study/Environmental Assessment (S/EA) (Step-2)																
4.5.1 Administrative Draft (S/EA)	8		12	40	40										100	\$ 17,410
4.5.2 Draft (S/EA) for Public Review	2		4	20	20										46	\$ 7,924
4.5.3 Public Review	8			8											16	\$ 3,483
4.5.4 Draft Mitigated Negative Declaration/Finding of No Significant Impact (MND/FONS)	2		4	4	4										14	\$ 2,464
4.5.5 Final MND/FONS	4		6	16	16										42	\$ 7,340

SUBCONSULTANT MANHOURLY WORKSHEET

COMPANY: WSP | Parsons Brinckerhoff

PROJECT: Replacement of Railroad Avenue Bridge over Format Wash [Br. No. 56C0099, FPN BRLO-5956(226)]

SCOPE OF WORK:

Plans, Specifications & Estimate (PS&E)

PHASE: Phase II

DATE: March 27, 2017

MANAGER/LEAD	LEAD PLANNER	SENIOR PLANNER	PROJECT PLANNER	LEAD PLANNER	SENIOR ENGINEER	ARCHAEOLOGIST	SENIOR PLANNER	PROJECT ACCOUNTANT	SENIOR PLANNER	ENVIRONMENTAL ANALYST / PLANNER	LEAD PLANNER	SENIOR TECHNICAL REQUEST	HOURS	COST
\$231.21	\$159.16	\$204.12	\$137.13	\$179.18	\$190.21	\$109.07	\$235.61	\$125.79	\$158.56	\$103.02	\$115.62	\$162.36	\$126.73	

Total Manhours

32

48

80

DESCRIPTION	32	48	80
1.1 Project Management			
1.2 Project Team Meetings			
1.3 Quality Control and Quality Assurance (QA/QC)			
5.1 Foundation Design Report			
5.2 Storm Water Pollution Prevention Plan (SWPPP)			
5.3 Utility Relocation Coordination			
5.4 65% Roadway Plans			
5.5 65% Signing, Striping and Detour Plans			
5.6 95% Civil Roadway PS&E			
5.7 Bridge Type Selection			
5.8 65% Unchecked Structure Plans			
5.9 Bridge Design Independent Check			
5.10 95% Structure PS&E			
5.11 Final 100% Design PS&E and Contract Bid Documents			
5.12 Right-of-Way Legal Descriptions and Plats (by County)			
5.13 Right-of-Way Appraisal and Acquisition (by County)			
6.0 Permitting			
6.1 ACQE Section 404 Nationwide Permit	12	16	28
6.2 RWQCB Section 401 Water Quality Certification	10	16	26
6.3 CDFW Section 1602 Streambed Alteration Agreement	10	16	26
6.4 Caltrans Encroachment Permit (Step 2)			

ESTIMATE OF OTHER DIRECT COST (ODC) ITEMS

REPLACEMENT OF RAILROAD AVENUE BRIDGE OVER EAST CHANNEL STUBBE WASH (BR.
NO. 56C0101)

FPN: BRLO-5956(229)

Consultant: WSP Parsons Brinckerhoff

Contract No.: _____

Date: 3/27/2017

Reproduction Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
8.5"X11" B/W	\$0.04	1680	\$67.20
8.5"X11" COLOR	\$0.25	400	\$100.00
11"X17" B/W	\$0.09	170	\$15.30
11"X17" COLOR	\$0.29	90	\$26.10
24"X36" B/W	\$8.00	25	\$200.00
24"X36" COLOR	\$10.00	9	\$90.00
30"X42" B/W	\$12.00	0	\$0.00
30"X42" COLOR	\$15.00	0	\$0.00
BINDERS (3-RING)	\$4.00	1	\$4.00
TAB	\$2.75	2	\$5.50
SUBTOTAL COST			\$508.10
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Priority Mail	\$6.65	68	\$452.20
FedEx	\$35.00	2	\$70.00
	\$0.00	0	\$0.00
SUBTOTAL COST			\$522.20
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	4200	\$2,247.00
	\$0.00	0	\$0.00
TOTAL BUDGET			\$2,247.00
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
EDR	\$3,000.00	1	\$3,000.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
SUBTOTAL COST			\$3,000.00
TOTAL ODCs			\$6,277.30

NOTES:

1. ODC items should be based on actual costs and supported by historical data and other documentation.
2. ODC items that would be considered "tools of the trade" are not reimbursable.
3. ODC items should be consistently billed directly to all clients, not just when client will pay for them as a direct cost.
4. ODC items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in overhead rate.

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: WSP Parsons Brinckerhoff	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Railroad Avenue over East Channel Stubbe Wash [Br. No. 56C0101, FPN BRL0-5956(229)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Lorraine Ahlquist	Project Manager/Environmental Lead	96	@	\$80.93	\$7,769.28
Larissa Kling Rawlins	Lead Planner	64	@	\$55.71	\$3,565.44
Debra Meier	Senior Planner	177	@	\$71.45	\$12,646.65
Maisoon Afaneh	Project Planner	112	@	\$48.00	\$5,376.00
Ivy Edmonds - Hess	Lead Planner			\$62.37	
David VanGoethem	Senior Engineer	15	@	\$66.58	\$998.70
Hollis Lawrence	Archeologist	38	@	\$38.18	\$1,450.84
Jeff Howard	Senior Planner	26	@	\$82.47	\$2,144.22
Cynthia Cavazos	Project Accountant	15	@	\$44.03	\$660.45
Theresa Dickerson	Senior Planner			\$55.50	
Lesley Mauer	Environmental Analyst / Planner	29	@	\$36.06	\$1,045.74
Micheal Lieu	Environmental Analyst / Planner	45	@	\$40.47	\$1,821.15
Edward Tadross	Lead Planner			\$56.83	
Douglas Villars	Senior Technical Specialist	35	@	\$44.36	\$1,552.60
TOTAL HOURS		652		TOTAL DIRECT LABOR	\$39,031.07

MULTIPLIERS

ESCALATION @	2.50%	(of Direct Labor)	\$975.78
OVERHEAD @	33.53%	(of Direct Labor + Escalation)	\$13,414.30
PAYROLL ADDITIVES @	119.85%	(of Direct Labor + Escalation)	\$47,948.21
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$10,136.93
TOTAL MULTIPLIERS			\$72,475.21

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1	LS	@	\$508.1000	\$508.10
Mailing and Special Delivery	1	LS	@	\$522.20	\$522.20
Mileage and Travel	1	LS	@	\$2,247.00	\$2,247.00
Miscellaneous (Record Searches)	1	LS	@	\$3,000.00	\$3,000.00
TOTAL ODC'S					\$6,277.30

TOTAL **\$117,783.58**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: WSP Parsons Brinckerhoff	SCOPE OF WORK: Plans, Specifications & Estimate (PS&E)	PHASE: Phase II
PROJECT: Replacement of Railroad Avenue over East Channel Stubbe Wash [Br. No. 56C0101, FPN BRLO-5956(229)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Lorraine Ahlquist	Project Manager/Environmental Lead	32	@ \$80.93	\$2,589.76
Larissa Kling Rawlins	Lead Planner		\$55.71	
Debra Meier	Senior Planner		\$71.45	
Maisoon Afaneh	Project Planner	48	@ \$48.00	\$2,304.00
Ivy Edmonds - Hess	Lead Planner		\$62.37	
David VanGoethem	Senior Engineer		\$66.58	
Hollis Lawrence	Archeologist		\$38.18	
Jeff Howard	Senior Planner		\$82.47	
Cynthia Cavazos	Project Accountant		\$44.03	
Theresa Dickerson	Senior Planner		\$55.50	
Lesley Mauer	Environmental Analyst / Planner		\$36.06	
Micheal Lieu	Environmental Analyst / Planner		\$40.47	
Edward Tadross	Lead Planner		\$56.83	
Douglas Villars	Senior Technical Specialist		\$44.36	
TOTAL HOURS		80	TOTAL DIRECT LABOR	\$4,893.76

MULTIPLIERS

ESCALATION @	2.50%	(of Direct Labor)	\$122.34
OVERHEAD @	33.53%	(of Direct Labor + Escalation)	\$1,681.90
PAYROLL ADDITIVES @	119.85%	(of Direct Labor + Escalation)	\$6,011.80
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$1,270.98
TOTAL MULTIPLIERS			\$9,087.02

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction		LS		
Mailing and Special Delivery		LS		
Mileage and Travel		LS		
Miscellaneous (Record Searches)		LS		

TOTAL ODC'S

TOTAL **\$13,980.78**

SUBCONSULTANT MANHOUR WORKSHEET SUMMARY

COMPANY: WSP Parsons Brinckerhoff	SCOPE OF WORK: Environmental	PHASE: All Phases
PROJECT: Replacement of Railroad Avenue over East Channel Stubbe Wash [Br. No. 56C0101, FPN BRL0-5956(229)]		DATE: March 27, 2017

TASK	MANAGER/ENVIRONMENTAL	128	64	177	160	15	38	26	15	29	45	35	732	
	LEAD PLANNER	\$231.21	\$155.27	\$199.14	\$133.78	\$173.84	\$185.57	\$106.41	\$229.86	\$122.72	\$154.69	\$100.51	\$112.80	\$168.40
	PROJECT PLANNER													
	SENIOR PLANNER													
	LEAD PLANNER													
	PROJECT PLANNER													
	SENIOR ENGINEER													
	ARCHEOLOGIST													
	SENIOR PLANNER													
	PROJECT ACCOUNTANT													
	SENIOR PLANNER													
	ENVIRONMENTAL ANALYST													
ENVIRONMENTAL ANALYST														
LEAD PLANNER														
SENIOR TECHNICAL SPECIALIST														

PHASE TOTALS

PHASE I	96	64	177	112	15	38	26	15	29	45	35	652
PHASE II	32			48								80

SUBCONSULTANT MANHOURLY WORKSHEET

COMPANY: WSP | Parsons Brinckerhoff
 PROJECT: Replacement of Railroad Avenue over East Channel Stubbe Wash [Br. No. 56C0'01, FPN BRL0-5966(229)]
 SCOPE OF WORK: Preliminary Engineering & Environmental Documentation
 PHASE: Phase I
 DATE: March 27, 2017

TASK	MANAGEMENT/ENVIRONMENTAL LEAD	LEAD PLANNER	SENIOR PLANNER	PROJECT PLANNER	PROJECT PLANNER	LEAD PLANNER	SENIOR PLANNER	ARCHITECT/DIST	SENIOR ENGINEER	SENIOR ENGINEER	PROJECT ACCOUNTANT	SENIOR PLANNER	ENVIRONMENTAL ANALYST/PLANNER	ENVIRONMENTAL ANALYST/PLANNER	LEAD PLANNER	SENIOR TECHNICAL SPECIALIST	VALUE	COST
APE	2	4						4									10	\$ 1,509
ASR								5									5	\$ 532
HRER								5									5	\$ 532
HPSR	2	4						2									8	\$ 1,296
4.3.9A Finding of Effect (FoE) (Step-2)																		
4.3.9B Section 106 Memorandum of Agreement (MOA) (Step-2)	4								8								12	\$ 1,776
4.3.10 CEQA Notice of Exemption (NOE)	2					4	4										10	\$ 1,794
4.5 CEQA/NEPA Initial Study/Environmental Assessment (IS/EA) (Step-2)																		
4.5.1 Administrative Draft IS/EA	8	12	40	40													100	\$ 17,030
4.5.2 Draft IS/EA for Public Review	2	4	20	20													46	\$ 7,742
4.5.3 Public Review	8		8														16	\$ 3,443
4.5.4 Draft Mitigated Negative Declaration/Finding of No Significant Impact (MND/FONS)	2	4	4	4													14	\$ 2,415
4.5.5 Final MND/FONS	4	6	16	16													42	\$ 7,183

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: WSP Parsons Brinckerhoff	SCOPE OF WORK: Environmental	PHASE: All Phases
PROJECT: Replacement of Chuckwalla Valley Road Bridge over Aztec Ditch [Br. No. 56C0102, FPN BRLO-5956(239)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Lorraine Ahlquist	Project Manager/Environmental Lead	112	@ \$80.93	\$9,064.16
Larissa Kling Rawlins	Lead Planner	52	@ \$55.71	\$2,896.92
Debra Meier	Senior Planner	142	@ \$71.45	\$10,145.90
Maisoon Afaneh	Project Planner	160	@ \$48.00	\$7,680.00
Ivy Edmonds - Hess	Lead Planner		\$62.37	
David VanGoethem	Senior Engineer	8	@ \$66.58	\$532.64
Hollis Lawrence	Archeologist	24	@ \$38.18	\$916.32
Jeff Howard	Senior Planner	8	@ \$82.47	\$659.76
Cynthia Cavazos	Project Accountant	15	@ \$44.03	\$660.45
Theresa Dickerson	Senior Planner	15	@ \$55.50	\$832.50
Lesley Mauer	Environmental Analyst / Planner	6	@ \$36.06	\$216.36
Micheal Lieu	Environmental Analyst / Planner	4	@ \$40.47	\$161.88
Edward Tadross	Lead Planner		\$56.83	
Douglas Villars	Senior Technical Specialist	26	@ \$44.36	\$1,153.36
TOTAL HOURS		572	TOTAL DIRECT LABOR	\$34,920.25

MULTIPLIERS

ESCALATION @	2.50%	(of Direct Labor)	\$873.01
FRINGE BENEFIT @	33.53%	(of Direct Labor + Escalation)	\$12,001.48
GENERAL AND ADMINISTRATIVE OVERHEAD @	119.85%	(of Direct Labor + Escalation)	\$42,898.22
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$9,069.30
TOTAL MULTIPLIERS			\$64,842.00

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction	1	LS @	\$508.10	\$508.10
Mailing and Special Delivery	1	LS @	\$522.20	\$522.20
Mileage and Travel	1	LS @	\$2,247.00	\$2,247.00
Miscellaneous (Record Searches)	1	LS @	\$3,000.00	\$3,000.00
TOTAL ODC'S				\$6,277.30

TOTAL \$106,039.55

ESTIMATE OF OTHER DIRECT COST (ODC) ITEMS
REPLACEMENT OF CHUCKWALLA VALLEY ROAD BRIDGE AZTEC DITCH
(BR. NO. 56C0102)

FPN: BRLO-5956(239)

Consultant: WSP Parsons Brinckerhoff

Contract No.: _____

Date: 3/27/2017

Reproduction Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
8.5"X11" B/W	\$0.04	1680	\$67.20
8.5"X11" COLOR	\$0.25	400	\$100.00
11"X17" B/W	\$0.09	170	\$15.30
11"X17" COLOR	\$0.29	90	\$26.10
24"X36" B/W	\$8.00	25	\$200.00
24"X36" COLOR	\$10.00	9	\$90.00
30"X42" B/W	\$12.00	0	\$0.00
30"X42" COLOR	\$15.00	0	\$0.00
BINDERS (3-RING)	\$4.00	1	\$4.00
TAB	\$2.75	2	\$5.50
SUBTOTAL COST			\$508.10
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Priority Mail	\$6.65	68	\$452.20
FedEx	\$35.00	2	\$70.00
	\$0.00	0	\$0.00
SUBTOTAL COST			\$522.20
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	4200	\$2,247.00
	\$0.00	0	\$0.00
TOTAL BUDGET			\$2,247.00
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
EDR	\$3,000.00	1	\$3,000.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
SUBTOTAL COST			\$3,000.00
TOTAL ODCs			\$6,277.30

NOTES:

1. ODC items should be based on actual costs and supported by historical data and other documentation.
2. ODC items that would be considered "tools of the trade" are not reimbursable.
3. ODC items should be consistently billed directly to all clients, not just when client will pay for them as a direct cost.
4. ODC items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in overhead rate.

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: WSP Parsons Brinckerhoff	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Chuckwalla Valley Road Bridge over Aztec Ditch [Br. No. 56C0102, FPN BRLO-5956(239)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Lorraine Ahlquist	Project Manager/Environmental Lead	80	@	\$80.93	\$6,474.40
Larissa Kling Rawlins	Lead Planner	52	@	\$55.71	\$2,896.92
Debra Meier	Senior Planner	142	@	\$71.45	\$10,145.90
Maisoon Afaneh	Project Planner	112	@	\$48.00	\$5,376.00
Ivy Edmonds - Hess	Lead Planner			\$62.37	
David VanGoethem	Senior Engineer	8	@	\$66.58	\$532.64
Hollis Lawrence	Archeologist	24	@	\$38.18	\$916.32
Jeff Howard	Senior Planner	8	@	\$82.47	\$659.76
Cynthia Cavazos	Project Accountant	15	@	\$44.03	\$660.45
Theresa Dickerson	Senior Planner	15	@	\$55.50	\$832.50
Lesley Maurer	Environmental Analyst / Planner	6	@	\$36.06	\$216.36
Micheal Lieu	Environmental Analyst / Planner	4	@	\$40.47	\$161.88
Edward Tadross	Lead Planner			\$56.83	
Douglas Villars	Senior Technical Specialist	26	@	\$44.36	\$1,153.36
TOTAL HOURS		492		TOTAL DIRECT LABOR	\$30,026.49

MULTIPLIERS

ESCALATION @	2.50%	(of Direct Labor)	\$750.66
FRINGE BENEFIT @	33.53%	(of Direct Labor + Escalation)	\$10,319.58
GENERAL AND ADMINISTRATIVE OVERHEAD @	119.85%	(of Direct Labor + Escalation)	\$36,886.42
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$7,798.31
TOTAL MULTIPLIERS			\$55,754.97

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1	LS	@	\$508.10	\$508.10
Mailing and Special Delivery	1	LS	@	\$522.20	\$522.20
Mileage and Travel	1	LS	@	\$2,247.00	\$2,247.00
Miscellaneous (Record Searches)	1	LS	@	\$3,000.00	\$3,000.00

TOTAL ODC'S \$6,277.30

TOTAL \$92,058.76

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: WSP Parsons Brinckerhoff	SCOPE OF WORK: Plans, Specifications & Estimate (PS&E)	PHASE: Phase II
PROJECT: Replacement of Chuckwalla Valley Road Bridge over Aztec Ditch [Br. No. 56C0102, FPN BRLO-5956(239)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Lorraine Ahlquist	Project Manager/Environmental Lead	32	@ \$80.93	\$2,589.76
Larissa Kling Rawlins	Lead Planner		\$55.71	
Debra Meier	Senior Planner		\$71.45	
Maisoon Afaneh	Project Planner	48	@ \$48.00	\$2,304.00
Ivy Edmonds - Hess	Lead Planner		\$62.37	
David VanGoethem	Senior Engineer		\$66.58	
Hollis Lawrence	Archeologist		\$38.18	
Jeff Howard	Senior Planner		\$82.47	
Cynthia Cavazos	Project Accountant		\$44.03	
Theresa Dickerson	Senior Planner		\$55.50	
Lesley Mauer	Environmental Analyst / Planner		\$36.06	
Micheal Lieu	Environmental Analyst / Planner		\$40.47	
Edward Tadross	Lead Planner		\$56.83	
Douglas Villars	Senior Technical Specialist		\$44.36	
TOTAL HOURS		80	TOTAL DIRECT LABOR	\$4,893.76

MULTIPLIERS

ESCALATION @	2.50% (of Direct Labor)	\$122.34
FRINGE BENEFIT @	33.53% (of Direct Labor + Escalation)	\$1,681.90
GENERAL AND ADMINISTRATIVE OVERHEAD @	119.85% (of Direct Labor + Escalation)	\$6,011.80
PROFIT (FIXED FEE) @	10.0% (of Direct Labor + Escalation + Overhead + Payroll Additives)	\$1,270.98
TOTAL MULTIPLIERS		\$9,087.02

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction		LS		
Mailing and Special Delivery		LS		
Mileage and Travel		LS		
Miscellaneous (Record Searches)		LS		

TOTAL ODC'S

TOTAL **\$13,980.78**

SUBCONSULTANT MANHOOR WORKSHEET

COMPANY: WSP | Parsons Brinckerhoff
 PROJECT: Replacement of Chuckwalla Valley Road Bridge over Aztec Ditch [Br. No. 56C0102, FPN BRLO-5956(239)]
 SCOPE OF WORK: Preliminary Engineering & Environmental Documentation
 PHASE: Phase I
 DATE: March 10, 2017

TASK	MANAGER/ENVIRONMENTAL LEAD	LEAD PLANNER	SENIOR PLANNER	PROJECT PLANNER	SENIOR PLANNER	ARCHAEOLOGIST	SENIOR ENGINEER	SENIOR PLANNER	PROJECT ACCOUNTANT	SENIOR PLANNER	ENVIRONMENTAL ANALYST/PLANNER	ENVIRONMENTAL ANALYST/PLANNER	LEAD PLANNER	SENIOR PLANNER	SENIOR TECHNICAL SPECIALIST	HOURS	COST
80	\$231.21	\$159.16	\$204.12	\$137.13	\$178.18	\$190.21	\$109.07	\$235.61	\$125.79	\$159.56	\$103.02	\$115.62	\$192.36	\$126.73		26	\$126.73

Total Manhours 80 52 142 112 8 24 8 15 15 4 4 26 492

1.1 Project Management																			
1.2 Project Team Meetings																			
1.3 Quality Control and Quality Assurance (QA/QC)																			
2.0 Research and Data Gathering																			
2.1 Collect and Review Existing Information																			
2.2 Conduct Field Review																			
3.0 Preliminary Engineering																			
3.1 Traffic Study (Technical Memorandum/Traffic Summary)																			
3.2 Preliminary Utility Mapping																			
3.3 Permits																			
3.4 Surveying and Right-of-Way Mapping (by County)																			
3.5 Preliminary Geotechnical Studies																			
3.6 Right-of-Way Requirements Map																			
3.7 Geometric Approval Drawings																			
3.8 Structure Advance Planning Study																			
3.9 Hydrologic, Hydraulic and Scour Studies																			
3.10 Advisory and Mandatory Fact Sheets																			
3.11 Engineer's Estimate																			
4.0 Environmental Clearance & Documentation																			
4.1 Project Initiation	24																39	\$ 7,436	
4.2 Preliminary Environmental Study (PES)	6	8	18	20					15	5							57	\$ 9,870	
4.3 Technical Studies																			
4.3.1 Hazardous Waste (Initial Site Assessment)						8													
4.3.2 Preliminary Site Assessment (Step-2)														4					
4.3.3 Water Quality Assessment Studies																			
4.3.4 Natural Environmental Study	6	2		4														12	\$ 2,254
4.3.5 Wetland Delineation and Assessment	6	2		4														12	\$ 2,254
4.3.6 Section 4(f) Evaluation (Individual Finding)																			
4.3.7 Visual Resources (Minor Visual Impact Assessment)	4	6	32					8		10	6				26		92	\$ 15,795	
4.3.8 Culture Resources Study (APE/ASR/HRE/HPSR)																			
APE	2	4																10	\$ 1,535
ASR							4											5	\$ 545

SUBCONSULTANT FEE PROPOSAL WORKSHEET		
COMPANY: WSP Parsons Brinckerhoff	SCOPE OF WORK: Environmental	PHASE: All Phases
PROJECT: Replacement of Chuckwalla Valley Road Bridge over Tarantula Ditch [Br. No. 56C0103, FPN BRLO-5956(227)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Lorraine Ahlquist	Project Manager/Environmental Lead	112	@ \$80.93	\$9,064.16
Larissa Kling Rawlins	Lead Planner	52	@ \$55.71	\$2,896.92
Debra Meier	Senior Planner	142	@ \$71.45	\$10,145.90
Maisoon Afaneh	Project Planner	160	@ \$48.00	\$7,680.00
Ivy Edmonds - Hess	Lead Planner		\$62.37	
David VanGoethem	Senior Engineer	8	@ \$66.58	\$532.64
Hollis Lawrence	Archeologist	24	@ \$38.18	\$916.32
Jeff Howard	Senior Planner	8	@ \$82.47	\$659.76
Cynthia Cavazos	Project Accountant	15	@ \$44.03	\$660.45
Theresa Dickerson	Senior Planner	15	@ \$55.50	\$832.50
Lesley Mauer	Environmental Analyst / Planner	6	@ \$36.06	\$216.36
Micheal Lieu	Environmental Analyst / Planner	4	@ \$40.47	\$161.88
Edward Tadross	Lead Planner		\$56.83	
Douglas Villars	Senior Technical Specialist	26	@ \$44.36	\$1,153.36
TOTAL HOURS		572	TOTAL DIRECT LABOR	\$34,920.25

MULTIPLIERS

ESCALATION @	2.50%	(of Direct Labor)	\$873.01
FRINGE BENEFIT @	33.53%	(of Direct Labor + Escalation)	\$12,001.48
GENERAL AND ADMINISTRATIVE OVERHEAD @	119.85%	(of Direct Labor + Escalation)	\$42,898.22
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$9,069.30
TOTAL MULTIPLIERS			\$64,842.00

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction	1	LS @	\$508.10	\$508.10
Mailing and Special Delivery	1	LS	\$522.20	\$522.20
Mileage and Travel	1	LS	\$2,247.00	\$2,247.00
Miscellaneous (Record Searches)	1	LS	\$3,000.00	\$3,000.00

TOTAL ODC'S \$6,277.30

TOTAL \$106,039.55

ESTIMATE OF OTHER DIRECT COST (ODC) ITEMS
REPLACEMENT OF CHUCKWALLA VALLEY ROAD BRIDGE OVER TARANTULA DITCH
(BR. NO. 56C0103)

FPN: BRLO-5956(227)

Consultant: WSP Parsons Brinckerhoff

Contract No.: _____

Date: 3/27/2017

Reproduction Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
8.5"X11" B/W	\$0.04	1680	\$67.20
8.5"X11" COLOR	\$0.25	400	\$100.00
11"X17" B/W	\$0.09	170	\$15.30
11"X17" COLOR	\$0.29	90	\$26.10
24"X36" B/W	\$8.00	25	\$200.00
24"X36" COLOR	\$10.00	9	\$90.00
30"X42" B/W	\$12.00	0	\$0.00
30"X42" COLOR	\$15.00	0	\$0.00
BINDERS (3-RING)	\$4.00	1	\$4.00
TAB	\$2.75	2	\$5.50
SUBTOTAL COST			\$508.10
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Priority Mail	\$6.65	68	\$452.20
FedEx	\$35.00	2	\$70.00
	\$0.00	0	\$0.00
SUBTOTAL COST			\$522.20
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	4200	\$2,247.00
	\$0.00	0	\$0.00
TOTAL BUDGET			\$2,247.00
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
EDR	\$3,000.00	1	\$3,000.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
SUBTOTAL COST			\$3,000.00
TOTAL ODCs			\$6,277.30

NOTES:

1. ODC items should be based on actual costs and supported by historical data and other documentation.
2. ODC items that would be considered "tools of the trade" are not reimbursable.
3. ODC items should be consistently billed directly to all clients, not just when client will pay for them as a direct cost.
4. ODC items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in overhead rate.

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: WSP Parsons Brinckerhoff	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Chuckwalla Valley Road Bridge over Tarantula Ditch [Br. No. 56C0103, FPN BRLO-5956(227)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT	
Lorraine Ahlquist	Project Manager/Environmental Lead	80	@ \$80.93	\$6,474.40	
Larissa Kling Rawlins	Lead Planner	52	@ \$55.71	\$2,896.92	
Debra Meier	Senior Planner	142	@ \$71.45	\$10,145.90	
Maisoon Afaneh	Project Planner	112	@ \$48.00	\$5,376.00	
Ivy Edmonds - Hess	Lead Planner		\$62.37		
David VanGoethem	Senior Engineer	8	@ \$66.58	\$532.64	
Hollis Lawrence	Archeologist	24	@ \$38.18	\$916.32	
Jeff Howard	Senior Planner	8	@ \$82.47	\$659.76	
Cynthia Cavazos	Project Accountant	15	@ \$44.03	\$660.45	
Theresa Dickerson	Senior Planner	15	@ \$55.50	\$832.50	
Lesley Mauer	Environmental Analyst / Planner	6	@ \$36.06	\$216.36	
Micheal Lieu	Environmental Analyst / Planner	4	@ \$40.47	\$161.88	
Edward Tadross	Lead Planner		\$56.83		
Douglas Villars	Senior Technical Specialist	26	@ \$44.36	\$1,153.36	
		TOTAL HOURS	492	TOTAL DIRECT LABOR	\$30,026.49

MULTIPLIERS

ESCALATION @	2.50%	(of Direct Labor)		\$750.66
OVERHEAD @	33.53%	(of Direct Labor + Escalation)		\$10,319.58
PAYROLL ADDITIVES @	119.85%	(of Direct Labor + Escalation)		\$36,886.42
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)		\$7,798.31
TOTAL MULTIPLIERS				\$55,754.97

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction	1	LS	@ \$508.10	\$508.10
Mailing and Special Delivery	1	LS	@ \$522.20	\$522.20
Mileage and Travel	1	LS	@ \$2,247.00	\$2,247.00
Miscellaneous (Record Searches)	1	LS	@ \$3,000.00	\$3,000.00

TOTAL ODC'S \$6,277.30

TOTAL **\$92,058.76**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: WSP Parsons Brinckerhoff	SCOPE OF WORK: Plans, Specifications & Estimate (PS&E)	PHASE: Phase II
PROJECT: Replacement of Chuckwalla Valley Road Bridge over Tarantula Ditch [Br. No. 56C0103, FPN BRLO-5956(227)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
Lorraine Ahlquist	Project Manager/Environmental Lead	32	@	\$80.93	\$2,589.76
Larissa Kling Rawlins	Lead Planner			\$55.71	
Debra Meier	Senior Planner			\$71.45	
Maisoon Afaneh	Project Planner	48	@	\$48.00	\$2,304.00
Ivy Edmonds - Hess	Lead Planner			\$62.37	
David VanGoethem	Senior Engineer			\$66.58	
Hollis Lawrence	Archeologist			\$38.18	
Jeff Howard	Senior Planner			\$82.47	
Cynthia Cavazos	Project Accountant			\$44.03	
Theresa Dickerson	Senior Planner			\$55.50	
Lesley Mauer	Environmental Analyst / Planner			\$36.06	
Micheal Lieu	Environmental Analyst / Planner			\$40.47	
Edward Tadross	Lead Planner			\$56.83	
Douglas Villars	Senior Technical Specialist			\$44.36	
TOTAL HOURS		80		TOTAL DIRECT LABOR	\$4,893.76

MULTIPLIERS

ESCALATION @	2.50%	(of Direct Labor)	\$122.34
OVERHEAD @	33.53%	(of Direct Labor + Escalation)	\$1,681.90
PAYROLL ADDITIVES @	119.85%	(of Direct Labor + Escalation)	\$6,011.80
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$1,270.98
TOTAL MULTIPLIERS			\$9,087.02

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction		LS		
Mailing and Special Delivery		LS		
Mileage and Travel		LS		
Miscellaneous (Record Searches)		LS		

TOTAL ODC'S

TOTAL **\$13,980.78**

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: WSP | Parsons Brinckerhoff
 PROJECT: Replacement of Chuckwalla Valley Road Bridge over Tarantula Ditch [Br. No. 56C0103, FPN BRLO-5956(227)]
 SCOPE OF WORK: Preliminary Engineering & Environmental Documentation
 PHASE: Phase I
 DATE: March 27, 2017

TASK	MANAGEMENT/LEAD										TOTAL HOURS	COST	
	PROJECT MANAGER	LEAD PLANNER	SENIOR PLANNER	PROJECT PLANNER	LEAD PLANNER	SENIOR PLANNER	ARCHITECT	SENIOR ENGINEER	PROJECT ACCOUNTANT	SENIOR PLANNER			
ASR												5	\$ 545
HRER												5	\$ 545
HPSR												8	\$ 1,317
4.3.9A Finding of Effect (FoE) (Step-2)	2	4											
4.3.9B Section 106 Memorandum of Agreement (MOA) (Step-2)	4												
4.3.10 CEQA Notice of Exemption (NOE)	2	4	4	4								12	\$ 1,797
4.5 CEQA/NEPA Initial Study/Environmental Assessment (IS/EA) (Step-2)												10	\$ 1,827
4.5.1 Administrative Draft IS/EA	8	12	40	40								100	\$ 17,410
4.5.2 Draft IS/EA for Public Review	2	4	20	20								46	\$ 7,924
4.5.3 Public Review	8		8									16	\$ 3,483
4.5.4 Draft Mitigated Negative Declaration/Finding of No Significant Impact (MND/FONSI)	2	4	4	4								14	\$ 2,464
4.5.5 Final MND/FONSI	4	6	16	16								42	\$ 7,340

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: WSP Parsons Brinckerhoff	SCOPE OF WORK: Environmental	PHASE: All Phases
PROJECT: Replacement of Chuckwalla Valley Road over Sutro Ditch [Br. No. 56C0104, FPN BRLO-5956(226)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Lorraine Ahlquist	Project Manager/Environmental Lead	112	@ \$80.93	\$9,064.16
Larissa Kling Rawlins	Lead Planner	52	@ \$55.71	\$2,896.92
Debra Meier	Senior Planner	142	@ \$71.45	\$10,145.90
Maisoon Afaneh	Project Planner	160	@ \$48.00	\$7,680.00
Ivy Edmonds - Hess	Lead Planner		\$62.37	
David VanGoethem	Senior Engineer	8	@ \$66.58	\$532.64
Hollis Lawrence	Archeologist	24	@ \$38.18	\$916.32
Jeff Howard	Senior Planner	8	@ \$82.47	\$659.76
Cynthia Cavazos	Project Accountant	15	@ \$44.03	\$660.45
Theresa Dickerson	Senior Planner	15	@ \$55.50	\$832.50
Lesley Mauer	Environmental Analyst / Planner	6	@ \$36.06	\$216.36
Micheal Lieu	Environmental Analyst / Planner	4	@ \$40.47	\$161.88
Edward Tadross	Lead Planner		\$56.83	
Douglas Villars	Senior Technical Specialist	26	@ \$44.36	\$1,153.36
TOTAL HOURS		572	TOTAL DIRECT LABOR	\$34,920.25

MULTIPLIERS

ESCALATION @	2.50%	(of Direct Labor)	\$873.01
FRINGE BENEFIT @	33.53%	(of Direct Labor + Escalation)	\$12,001.48
GENERAL AND ADMINISTRATIVE OVERHEAD @	119.85%	(of Direct Labor + Escalation)	\$42,898.22
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$9,069.30
TOTAL MULTIPLIERS			\$64,842.00

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction	1	LS	@ \$508.100	\$508.10
Mailing and Special Delivery	1	LS	@ \$522.20	\$522.20
Mileage and Travel	1	LS	@ \$2,247.00	\$2,247.00
Miscellaneous (Record Searches)	1	LS	@ \$3,000.00	\$3,000.00
TOTAL ODC'S				\$6,277.30

TOTAL \$106,039.55

ESTIMATE OF OTHER DIRECT COST (ODC) ITEMS
REPLACEMENT OF CHUCKWALLA VALLEY ROAD BRIDGE OVER SUTRO DITCH
(BR. NO. 56C0104)

FPN: BRLO-5956(226)

Consultant: WSP Parsons Brinckerhoff

Contract No.: _____

Date: 3/27/2017

Reproduction Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
8.5"X11" B/W	\$0.04	1680	\$67.20
8.5"X11" COLOR	\$0.25	400	\$100.00
11"X17" B/W	\$0.09	170	\$15.30
11"X17" COLOR	\$0.29	90	\$26.10
24"X36" B/W	\$8.00	25	\$200.00
24"X36" COLOR	\$10.00	9	\$90.00
30"X42" B/W	\$12.00	0	\$0.00
30"X42" COLOR	\$15.00	0	\$0.00
BINDERS (3-RING)	\$4.00	1	\$4.00
TAB	\$2.75	2	\$5.50
SUBTOTAL COST			\$508.10
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Priority Mail	\$6.65	68	\$452.20
FedEx	\$35.00	2	\$70.00
	\$0.00	0	\$0.00
SUBTOTAL COST			\$522.20
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	4200	\$2,247.00
	\$0.00	0	\$0.00
TOTAL BUDGET			\$2,247.00
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
EDR	\$3,000.00	1	\$3,000.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
SUBTOTAL COST			\$3,000.00
TOTAL ODCs			\$6,277.30

NOTES:

1. ODC items should be based on actual costs and supported by historical data and other documentation.
2. ODC items that would be considered "tools of the trade" are not reimbursable.
3. ODC items should be consistently billed directly to all clients, not just when client will pay for them as a direct cost.
4. ODC items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in overhead rate.

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: WSP Parsons Brinckerhoff	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Chuckwalla Valley Road over Sutro Ditch [Br. No. 56C0104, FPN BRLO-5956(226)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Lorraine Ahlquist	Project Manager/Environmental Lead	80	@ \$80.93	\$6,474.40
Larissa Kling Rawlins	Lead Planner	52	@ \$55.71	\$2,896.92
Debra Meier	Senior Planner	142	@ \$71.45	\$10,145.90
Maisoon Afaneh	Project Planner	112	@ \$48.00	\$5,376.00
Ivy Edmonds - Hess	Lead Planner		\$62.37	
David VanGoethem	Senior Engineer	8	@ \$66.58	\$532.64
Hollis Lawrence	Archeologist	24	@ \$38.18	\$916.32
Jeff Howard	Senior Planner	8	@ \$82.47	\$659.76
Cynthia Cavazos	Project Accountant	15	@ \$44.03	\$660.45
Theresa Dickerson	Senior Planner	15	@ \$55.50	\$832.50
Lesley Maurer	Environmental Analyst / Planner	6	@ \$36.06	\$216.36
Micheal Lieu	Environmental Analyst / Planner	4	@ \$40.47	\$161.88
Edward Tadross	Lead Planner		\$56.83	
Douglas Villars	Senior Technical Specialist	26	@ \$44.36	\$1,153.36
TOTAL HOURS		492	TOTAL DIRECT LABOR	\$30,026.49

MULTIPLIERS

ESCALATION @	2.50%	(of Direct Labor)	\$750.66
FRINGE BENEFIT @	33.53%	(of Direct Labor + Escalation)	\$10,319.58
GENERAL AND ADMINISTRATIVE OVERHEAD @	119.85%	(of Direct Labor + Escalation)	\$36,886.42
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$7,798.31
TOTAL MULTIPLIERS			\$55,754.97

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction	1	LS @	\$508.100	\$508.10
Mailing and Special Delivery	1	LS @	\$522.20	\$522.20
Mileage and Travel	1	LS @	\$2,247.00	\$2,247.00
Miscellaneous (Record Searches)	1	LS @	\$3,000.00	\$3,000.00
TOTAL ODC'S				\$6,277.30

TOTAL **\$92,058.76**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: WSP Parsons Brinckerhoff	SCOPE OF WORK: Plans, Specifications & Estimate (PS&E)	PHASE: Phase II
PROJECT: Replacement of Chuckwalla Valley Road over Sutro Ditch [Br. No. 56C0104, FPN BRLO-5956(226)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Lorraine Ahlquist	Project Manager/Environmental Lead	32	@ \$80.93	\$2,589.76
Larissa Kling Rawlins	Lead Planner		\$55.71	
Debra Meier	Senior Planner		\$71.45	
Maisoon Afaneh	Project Planner	48	@ \$48.00	\$2,304.00
Ivy Edmonds - Hess	Lead Planner		\$62.37	
David VanGoethem	Senior Engineer		\$66.58	
Hollis Lawrence	Archeologist		\$38.18	
Jeff Howard	Senior Planner		\$82.47	
Cynthia Cavazos	Project Accountant		\$44.03	
Theresa Dickerson	Senior Planner		\$55.50	
Lesley Mauer	Environmental Analyst / Planner		\$36.06	
Micheal Lieu	Environmental Analyst / Planner		\$40.47	
Edward Tadross	Lead Planner		\$56.83	
Douglas Villars	Senior Technical Specialist		\$44.36	
		TOTAL HOURS	80	
			TOTAL DIRECT LABOR	\$4,893.76

MULTIPLIERS

ESCALATION @	2.50% (of Direct Labor)	\$122.34
FRINGE BENEFIT @	33.53% (of Direct Labor + Escalation)	\$1,681.90
GENERAL AND ADMINISTRATIVE OVERHEAD @	119.85% (of Direct Labor + Escalation)	\$6,011.80
PROFIT (FIXED FEE) @	10.0% (of Direct Labor + Escalation + Overhead + Payroll Additives)	\$1,270.98
TOTAL MULTIPLIERS		\$9,087.02

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction		LS		
Mailing and Special Delivery		LS		
Mileage and Travel		LS		
Miscellaneous (Record Searches)		LS		
			TOTAL ODC'S	

TOTAL **\$13,980.78**

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: WSP Parsons Brinckerhoff	SCOPE OF WORK: Environmental	PHASE: All Phases
PROJECT: Replacement of Chuckwalla Valley Road Bridge over Acari Ditch [Br. No. 56C0108, FPN BRLO-5956(225)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Lorraine Ahlquist	Project Manager/Environmental Lead	112	@ \$80.93	\$9,064.16
Larissa Kling Rawlins	Lead Planner	52	@ \$55.71	\$2,896.92
Debra Meier	Senior Planner	142	@ \$71.45	\$10,145.90
Maisoon Afaneh	Project Planner	160	@ \$48.00	\$7,680.00
Ivy Edmonds - Hess	Lead Planner		\$62.37	
David VanGoethem	Senior Engineer	8	@ \$66.58	\$532.64
Hollis Lawrence	Archeologist	24	@ \$38.18	\$916.32
Jeff Howard	Senior Planner	8	@ \$82.47	\$659.76
Cynthia Cavazos	Project Accountant	15	@ \$44.03	\$660.45
Theresa Dickerson	Senior Planner	15	@ \$55.50	\$832.50
Lesley Mauer	Environmental Analyst / Planner	6	@ \$36.06	\$216.36
Micheal Lieu	Environmental Analyst / Planner	4	@ \$40.47	\$161.88
Edward Tadross	Lead Planner		\$56.83	
Douglas Villars	Senior Technical Specialist	26	@ \$44.36	\$1,153.36
TOTAL HOURS		572	TOTAL DIRECT LABOR	\$34,920.25

MULTIPLIERS

ESCALATION @	2.50%	(of Direct Labor)	\$873.01
FRINGE BENEFIT @	33.53%	(of Direct Labor + Escalation)	\$12,001.48
GENERAL AND ADMINISTRATIVE OVERHEAD @	119.85%	(of Direct Labor + Escalation)	\$42,898.22
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$9,069.30
TOTAL MULTIPLIERS			\$64,842.00

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction	1	LS	@ \$508.10	\$508.10
Mailing and Special Delivery	1	LS	@ \$522.20	\$522.20
Mileage and Travel	1	LS	@ \$2,247.00	\$2,247.00
Miscellaneous (Record Searches)	1	LS	@ \$3,000.00	\$3,000.00
TOTAL ODC'S				\$6,277.30

TOTAL **\$106,039.55**

ESTIMATE OF OTHER DIRECT COST (ODC) ITEMS
REPLACEMENT OF CHUCKWALLA VALLEY ROAD BRIDGE OVER ACARI DITCH
(BR. NO. 56C0108)

FPN: BRLO-5956(225)

Consultant: **WSP Parsons Brinckerhoff**

Contract No.:

Date: 3/27/2017

Reproduction Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
8.5"X11" B/W	\$0.04	1680	\$67.20
8.5"X11" COLOR	\$0.25	400	\$100.00
11"X17" B/W	\$0.09	170	\$15.30
11"X17" COLOR	\$0.29	90	\$26.10
24"X36" B/W	\$8.00	25	\$200.00
24"X36" COLOR	\$10.00	9	\$90.00
30"X42" B/W	\$12.00	0	\$0.00
30"X42" COLOR	\$15.00	0	\$0.00
BINDERS (3-RING)	\$4.00	1	\$4.00
TAB	\$2.75	2	\$5.50
SUBTOTAL COST			\$508.10
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Priority Mail	\$6.65	68	\$452.20
FedEx	\$35.00	2	\$70.00
	\$0.00	0	\$0.00
SUBTOTAL COST			\$522.20
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	4200	\$2,247.00
	\$0.00	0	\$0.00
TOTAL BUDGET			\$2,247.00
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
EDR	\$3,000.00	1	\$3,000.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
SUBTOTAL COST			\$3,000.00
TOTAL ODCs			\$6,277.30

NOTES:

1. ODC items should be based on actual costs and supported by historical data and other documentation.
2. ODC items that would be considered "tools of the trade" are not reimbursable.
3. ODC items should be consistently billed directly to all clients, not just when client will pay for them as a direct cost.
4. ODC items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in overhead rate.

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: WSP Parsons Brinckerhoff	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Chuckwalla Valley Road Bridge over Acari Ditch [Br. No. 56C0108, FPN BRLO-5956(225)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Lorraine Ahlquist	Project Manager/Environmental Lead	80	@ \$80.93	\$6,474.40
Larissa Kling Rawlins	Lead Planner	52	@ \$55.71	\$2,896.92
Debra Meier	Senior Planner	142	@ \$71.45	\$10,145.90
Maisoon Afaneh	Project Planner	112	@ \$48.00	\$5,376.00
Ivy Edmonds - Hess	Lead Planner		\$62.37	
David VanGoethem	Senior Engineer	8	@ \$66.58	\$532.64
Hollis Lawrence	Archeologist	24	@ \$38.18	\$916.32
Jeff Howard	Senior Planner	8	@ \$82.47	\$659.76
Cynthia Cavazos	Project Accountant	15	@ \$44.03	\$660.45
Theresa Dickerson	Senior Planner	15	@ \$55.50	\$832.50
Lesley Mauer	Environmental Analyst / Planner	6	@ \$36.06	\$216.36
Micheal Lieu	Environmental Analyst / Planner	4	@ \$40.47	\$161.88
Edward Tadross	Lead Planner		\$56.83	
Douglas Villars	Senior Technical Specialist	26	@ \$44.36	\$1,153.36
TOTAL HOURS		492	TOTAL DIRECT LABOR	\$30,026.49

MULTIPLIERS

ESCALATION @	2.50%	(of Direct Labor)	\$750.66
OVERHEAD @	33.53%	(of Direct Labor + Escalation)	\$10,319.58
PAYROLL ADDITIVES @	119.85%	(of Direct Labor + Escalation)	\$36,886.42
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$7,798.31
TOTAL MULTIPLIERS			\$55,754.97

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction	1	LS	@ \$508.10	\$508.10
Mailing and Special Delivery	1	LS	@ \$522.20	\$522.20
Mileage and Travel	1	LS	@ \$2,247.00	\$2,247.00
Miscellaneous (Record Searches)	1	LS	@ \$3,000.00	\$3,000.00

TOTAL ODC'S **\$6,277.30**

TOTAL \$92,058.76

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: WSP Parsons Brinckerhoff	SCOPE OF WORK: Plans, Specifications & Estimate (PS&E)	PHASE: Phase II
PROJECT: Replacement of Chuckwalla Valley Road Bridge over Acari Ditch [Br. No. 56C0108, FPN BRLO-5956(225)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Lorraine Ahlquist	Project Manager/Environmental Lead	32	@ \$80.93	\$2,589.76
Larissa Kling Rawlins	Lead Planner		\$55.71	
Debra Meier	Senior Planner		\$71.45	
Maisoon Afaneh	Project Planner	48	@ \$48.00	\$2,304.00
Ivy Edmonds - Hess	Lead Planner		\$62.37	
David VanGoethem	Senior Engineer		\$66.58	
Hollis Lawrence	Archeologist		\$38.18	
Jeff Howard	Senior Planner		\$82.47	
Cynthia Cavazos	Project Accountant		\$44.03	
Theresa Dickerson	Senior Planner		\$55.50	
Lesley Mauer	Environmental Analyst / Planner		\$36.06	
Micheal Lieu	Environmental Analyst / Planner		\$40.47	
Edward Tadross	Lead Planner		\$56.83	
Douglas Villars	Senior Technical Specialist		\$44.36	
TOTAL HOURS		80	TOTAL DIRECT LABOR	\$4,893.76

MULTIPLIERS

ESCALATION @	2.50% (of Direct Labor)	\$122.34
OVERHEAD @	33.53% (of Direct Labor + Escalation)	\$1,681.90
PAYROLL ADDITIVES @	119.85% (of Direct Labor + Escalation)	\$6,011.80
PROFIT (FIXED FEE) @	10.0% (of Direct Labor + Escalation + Overhead + Payroll Additives)	\$1,270.98
TOTAL MULTIPLIERS		\$9,087.02

OTHER DIRECT COSTS *** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction		LS		
Mailing and Special Delivery		LS		
Mileage and Travel		LS		
Miscellaneous (Record Searches)		LS		

TOTAL ODC'S	
TOTAL	\$13,980.78

SUBCONSULTANT MANHOOR WORKSHEET

COMPANY: WSP | Parsons Brinckerhoff
 PROJECT: Replacement of Chuckwalla Valley Road Bridge over Acari Ditch [Br. No. 56C0108, FPN BRLO-5956(225)]
 SCOPE OF WORK: Preliminary Engineering & Environmental Documentation
 PHASE: Phase I
 DATE: March 27, 2017

TASK	MANAGEMENT/ENVIRONMENTAL										ARCHITECT				ENVIRONMENTAL				TOTAL	
	PROJECT LEAD	SENIOR PLANNER	PROJECT PLANNER	LEAD PLANNER	SENIOR PLANNER	SENIOR ENGINEER	ARCHITECT	SENIOR ENGINEER	PROJECT ACCOUNTANT	SENIOR PLANNER	ENVIRONMENTAL ANALYST / PLANNER	ENVIRONMENTAL ANALYST / PLANNER	LEAD PLANNER	SENIOR PLANNER	SENIOR TECHNICAL SPECIALIST	SENIOR TECHNICAL SPECIALIST	HOURS	COST		
HRER	2	4															5	\$ 545		
HPSR																	8	\$ 1,317		
4.3.9A Finding of Effect (FoE) (Step-2)																				
4.3.9B Section 106 Memorandum of Agreement (MOA) (Step-2)	4																			
4.3.10 CEQA Notice of Exemption (NOE)	2	4	4	4													12	\$ 1,797		
4.5 CEQA/NEPA Initial Study/Environmental Assessment (IS/EA) (Step-2)																				
4.5.1 Administrative Draft IS/EA	8	12	40	40													100	\$ 17,410		
4.5.2 Draft IS/EA for Public Review	2	4	20	20													46	\$ 7,924		
4.5.3 Public Review	8	8	8														16	\$ 3,483		
4.5.4 Draft Mitigated Negative Declaration/Finding of No Significant Impact (MND/FONS)	2	4	4	4													14	\$ 2,464		
4.5.5 Final MND/FONS	4	6	16	16													42	\$ 7,340		

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Applied Earthworks	SCOPE OF WORK: Environmental	PHASE: All Phases
PROJECT: Replacement of Six Chuckwalla Valley Road and Railroad Avenue Bridges [BRLO-5956(228), BRLO-5956(229), BRLO-5956(239), BRLO-5956(227), BRLO-5956(226), BRLO-5956(225)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
V. Mirro	Principal In Charge *	18	@	\$80.50	\$1,449.00
J. Eddy	Principal Archeologist	214	@	\$42.17	\$9,024.38
M. Colleen Hamilton	Senior Architectural Historian	86	@	\$54.10	\$4,652.60
J. Castells	Staff Architectural Historian	648	@	\$35.22	\$22,822.56
D. McDougall	Field Supervisor	152	@	\$36.43	\$5,537.36
P. Moloney	Field Technician	100	@	\$28.71	\$2,871.00
M. Mirro	GIS Analyst	154	@	\$38.20	\$5,882.80
C. Inoway	GIS Technician	190	@	\$33.90	\$6,441.00
S. Bircheff	Administrative Assistant	242	@	\$32.58	\$7,884.36

* Key Personnel

TOTAL HOURS **1,804** TOTAL DIRECT LABOR **\$66,565.06**

MULTIPLIERS

ESCALATION @	0.75%	(of Direct Labor)	\$499.24
FRINGE BENEFIT @	45.40%	(of Direct Labor + Escalation)	\$30,447.19
GENERAL AND ADMINISTRATIVE @	74.60%	(of Direct Labor + Escalation)	\$50,029.97
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$14,754.15
TOTAL MULTIPLIERS			\$95,730.54

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1	LS	@	\$1,200.00	\$1,200.00
Mailing and Special Delivery	1	LS	@	\$1,500.00	\$1,500.00
Mileage and Travel	1	LS	@	\$2,644.50	\$2,644.50
Miscellaneous (Record Searches and Lab Supplies)	1	LS	@	\$6,000.00	\$6,000.00

TOTAL ODC'S **\$11,344.50**

TOTAL **\$173,640.10**

EXHIBIT 10-H. COST PROPOSAL
ACTUAL COST-PLUS-FIXED FEE OR LUMP SUM (FIRM FIXED PRICE) CONTRACTS
(CALCULATIONS FOR ANTICIPATED SALARY INCREASES)

Consultant Applied Earthworks Contract No. _____ Date 3/27/2017

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

Direct Labor Subtotal per Cost Proposal	Total Hours per Cost Proposal	=	Avg Hourly Rate	5 Year Contract Duration
\$66,565	1804	=	\$36.90	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	\$36.90	+	2.5%	=	\$37.82 Year 2 Avg Hourly Rate
Year 2	\$37.82	+	2.5%	=	\$38.77 Year 3 Avg Hourly Rate
Year 3	\$38.77	+	2.5%	=	\$39.74 Year 4 Avg Hourly Rate
Year 4	\$39.74	+	2.5%	=	\$40.73 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	70.00%	*	1804.0	=	1263	Estimated Hours Year 1
Year 2	30.00%	*	1804.0	=	541	Estimated Hours Year 2
Year 3	0.00%	*	1804.0	=	0	Estimated Hours Year 3
Year 4	0.00%	*	1804.0	=	0	Estimated Hours Year 4
Year 5	0.00%	*	1804.0	=	0	Estimated Hours Year 5
Total	100.0%		Total	=	1804.0	

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	\$36.90	*	1263	=	\$46,595.54	Estimated Hours Year 1
Year 2	\$37.82	*	541	=	\$20,468.76	Estimated Hours Year 2
Year 3	\$38.77	*	0	=	\$0.00	Estimated Hours Year 3
Year 4	\$39.74	*	0	=	\$0.00	Estimated Hours Year 4
Year 5	\$40.73	*	0	=	\$0.00	Estimated Hours Year 5
	Total Direct Labor Cost with Escalation			=	\$67,064.30	
	Direct Labor Subtotal before Escalation			=	\$66,565.06	
	Estimated total of Direct Labor Salary Increase (Dollar Amount)			=	\$499.24	Transfer to Cost Proposal
	Estimated total of Direct Labor Salary Increase (%)			=	0.750%	Transfer to Cost Proposal

NOTES:

- This is not the only way to estimate salary increases. Other methods will be accepted if they clearly indicate the % increase, the # of years of the contract, and a breakdown of the labor to be performed each year.
- An estimation that is based on direct labor multiplied by salary increase % multiplied by the # of years is not acceptable. (i.e. \$250,000 x 2% x 5 yrs = \$25,000 is not an acceptable methodology)
- This assumes that one year will be worked at the rate on the cost proposal before salary increases are granted.

ESTIMATE OF OTHER DIRECT COST (ODC) ITEMS

REPLACEMENT OF SIX CHUCKWALLA VALLEY ROAD AND RAILROAD AVENUE BRIDGES
 FPN: BRLO-5956(228), BRLO-5956(229), BRLO-5956(239), BRLO-5956(227), BRLO-5956(226),
 BRLO-5956(225)

Consultant: Applied Earthworks

Contract No.: _____

Date: 3/27/2017

Reproduction Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Copying	\$1.00	1200	\$1,200.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$1,200.00
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Postage/Communication	\$50.00	30	\$1,500.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$1,500.00
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	2700	\$1,444.50
Lodging	\$100.00	6	\$600.00
Rental/Fuel	\$100.00	6	\$600.00
			\$0.00
TOTAL BUDGET			\$2,644.50
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Records Search Fees	\$800.00	6	\$4,800.00
Archival Research Fees	\$50.00	12	\$600.00
			\$0.00
Expendable Field/Office/Lab Supplies	\$50.00	12	\$600.00
			\$0.00
SUBTOTAL COST			\$6,000.00
TOTAL ODCs			\$11,344.50

NOTES:

1. ODC items should be based on actual costs and supported by historical data and other documentation.
2. ODC items that would be considered "tools of the trade" are not reimbursable.
3. ODC items should be consistently billed directly to all clients, not just when client will pay for them as a direct cost.
4. ODC items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in overhead rate.

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Applied Earthworks	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Six Chuckwalla Valley Road and Railroad Avenue Bridges [BRLO-5956(228), BRLO-5956(229), BRLO-5956(239), BRLO-5956(227), BRLO-5956(226), BRLO-5956(225)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
V. Mirro	Principal In Charge	18	@	\$80.50	\$1,449.00
J. Eddy	Principal Archeologist	214	@	\$42.17	\$9,024.38
M. Colleen Hamilton	Senior Architectural Historian	86	@	\$54.10	\$4,652.60
J. Castells	Staff Architectural Historian	648	@	\$35.22	\$22,822.56
D. McDougall	Field Supervisor	152	@	\$36.43	\$5,537.36
P. Moloney	Field Technician	100	@	\$28.71	\$2,871.00
M. Mirro	GIS Analyst	154	@	\$38.20	\$5,882.80
C. Inoway	GIS Technician	190	@	\$33.90	\$6,441.00
S. Bircheff	Administrative Assistant	242	@	\$32.58	\$7,884.36
TOTAL HOURS		1,804		TOTAL DIRECT LABOR	\$66,565.06

MULTIPLIERS

ESCALATION @	0.75%	(of Direct Labor)	\$499.24
FRINGE BENEFIT @	45.40%	(of Direct Labor + Escalation)	\$30,447.19
GENERAL AND ADMINISTRATIVE @	74.60%	(of Direct Labor + Escalation)	\$50,029.97
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$14,754.15
TOTAL MULTIPLIERS			\$95,730.54

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1	LS	@	\$1,200.00	\$1,200.00
Mailing and Special Delivery	1	LS	@	\$1,500.00	\$1,500.00
Mileage and Travel	1	LS	@	\$2,644.50	\$2,644.50
Miscellaneous (Record Searches and Lab Supplies)	1	LS	@	\$6,000.00	\$6,000.00
TOTAL ODC'S					\$11,344.50

TOTAL **\$173,640.10**

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: Applied Earthworks
 PROJECT: Replacement of Six Chuckwalla Valley Road and Railroad Avenue Bridges [BRL0-5956(228), BRL0-5956(229), BRL0-5956(239), BRL0-5956(227), BRL0-5956(226), BRL0-5956(225)]
 SCOPE OF WORK: Preliminary Engineering & Environmental Documentation
 PHASE: Phase I
 DATE: March 27, 2017

PRINCIPAL IN CHARGE	\$102.82	18	214	86	648	152	100	154	190	242	1,804
ARCHITECT	\$131.90										
SENIOR ARCHITECTURAL	\$85.87										
STAFF ARCHITECTURAL											
FIELD SUPERVISOR	\$70.00										
FIELD TECHNICIAN	\$93.14										
GIS ANALYST	\$82.65										
GIS TECHNICIAN	\$79.43										
ADMINISTRATIVE ASSISTANT											

TASK	18	214	86	648	152	100	154	190	242	1,804	HOURS	COST
1.1 Project Management	12	48									92	\$ 9,832
1.2 Project Team Meetings												
1.3 Quality Control and Quality Assurance (QC/QA)												
2.0 Research and Data Gathering												
2.1 Collect and Review Existing Information												
2.2 Conduct Field Review												
3.0 Preliminary Engineering												
3.1 Traffic Study (Technical Memorandum/Traffic Summary)												
3.2 Preliminary Utility Mapping												
3.3 Permits												
3.4 Surveying and Right-of-Way Mapping (by County)												
3.5 Preliminary Geotechnical Studies												
3.6 Right-of-Way Requirements Map												
3.7 Geometric Design Drawings												
3.8 Structure Advance Planning Study												
3.9 Hydrologic, Hydraulic and Scour Studies												
3.10 Advisory and Mandatory Fact Sheets												
3.11 Engineer's Estimate												
4.0 Environmental Clearance & Documentation												
4.1 Project Initiation												
4.2 Preliminary Environmental Study (PES)	6	6	6	8	32		6	16	8		82	\$ 7,454
4.3 Technical Studies												
4.3.1 Hazardous Waste (Initial Site Assessment)												
4.3.2 Preliminary Site Assessment (Step 2)												
4.3.3 Water Quality Assessment Studies												
4.3.4 Natural Environmental Study and Focused Wildlife Surveys												
4.3.5 Wetland Delineation and Assessment												
4.3.6 Section 4(f) Evaluation (Individual Finding)	32	8	8	40			16		6		102	\$ 9,747
4.3.7 Visual Resources (Visual Impact Assessment)												
4.3.8 Culture Resources Study												
APE	8	4	4	16			14	16	12		70	\$ 6,304

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Applied Earthworks	SCOPE OF WORK: Environmental	PHASE: All Phases
PROJECT: Replacement of Railroad Avenue Bridge over Fornat Wash [Br. No. 56C0099, FPN BRLO-5956(228)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
V. Mirro	Principal In Charge	3	@ \$80.50	\$241.50
J. Eddy	Principal Archeologist *	53	@ \$42.17	\$2,235.01
M. Colleen Hamilton	Senior Architectural Historian	21	@ \$54.10	\$1,136.10
J. Castells	Staff Architectural Historian	162	@ \$35.22	\$5,705.64
D. McDougall	Field Supervisor	38	@ \$36.43	\$1,384.34
P. Moloney	Field Technician	30	@ \$28.71	\$861.30
M. Mirro	GIS Analyst	39	@ \$38.20	\$1,489.80
C. Inoway	GIS Technician	47	@ \$33.90	\$1,593.30
S. Bircheff	Administrative Assistant	63	@ \$32.58	\$2,052.54

* Key Personnel

TOTAL HOURS 456 TOTAL DIRECT LABOR \$16,699.53

MULTIPLIERS

ESCALATION @	0.75%	(of Direct Labor)	\$125.25
FRINGE BENEFIT @	45.40%	(of Direct Labor + Escalation)	\$7,638.45
GENERAL AND ADMINISTRATIVE @	74.60%	(of Direct Labor + Escalation)	\$12,551.28
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$3,701.45
TOTAL MULTIPLIERS			\$24,016.43

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction	1	LS @	\$200.00	\$200.00
Mailing and Special Delivery	1	LS @	\$250.00	\$250.00
Mileage and Travel	1	LS @	\$440.75	\$440.75
Miscellaneous (Record Searches and Lab Supplies)	1	LS @	\$1,000.00	\$1,000.00

TOTAL ODC'S \$1,890.75

TOTAL \$42,606.71

ESTIMATE OF OTHER DIRECT COST (ODC) ITEMS

Replacement of Railroad Avenue Bridge over Fornat Wash (Br. No. 56C0099)
 FPN: BRLO-5956(228)

Consultant: Applied Earthworks

Contract No.: _____

Date: 3/27/2017

Reproduction Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Copying	\$1.00	200	\$200.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$200.00
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Postage	\$50.00	5	\$250.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$250.00
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	450	\$240.75
Lodging	\$100.00	1	\$100.00
Rental/Fuel	\$100.00	1	\$100.00
			\$0.00
TOTAL BUDGET			\$440.75
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Records Search Fees	\$800.00	1	\$800.00
Archival Research Fees	\$50.00	2	\$100.00
	\$0.00	0	\$0.00
Expendable Field/Office/Lab Supplies	\$50.00	2	\$100.00
	\$0.00	0	\$0.00
SUBTOTAL COST			\$1,000.00
TOTAL ODCs			\$1,890.75

NOTES:

1. ODC items should be based on actual costs and supported by historical data and other documentation.
2. ODC items that would be considered "tools of the trade" are not reimbursable.
3. ODC items should be consistently billed directly to all clients, not just when client will pay for them as a direct cost.
4. ODC items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in overhead rate.

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Applied Earthworks	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Railroad Avenue Bridge over Fornat Wash [Br. No. 56C0099, FPN BRLO-5956(228)]		DATE: December 21, 2016

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
V. Mirro	Principal In Charge	3	@	\$80.50	\$241.50
J. Eddy	Principal Archeologist	53	@	\$42.17	\$2,235.01
M. Colleen Hamilton	Senior Architectural Historian	21	@	\$54.10	\$1,136.10
J. Castells	Staff Architectural Historian	162	@	\$35.22	\$5,705.64
D. McDougall	Field Supervisor	38	@	\$36.43	\$1,384.34
P. Moloney	Field Technician	30	@	\$28.71	\$861.30
M. Mirro	GIS Analyst	39	@	\$38.20	\$1,489.80
C. Inoway	GIS Technician	47	@	\$33.90	\$1,593.30
S. Bircheff	Administrative Assistant	63	@	\$32.58	\$2,052.54

TOTAL HOURS **456** TOTAL DIRECT LABOR **\$16,699.53**

MULTIPLIERS

ESCALATION @	0.75%	(of Direct Labor)	\$125.25
FRINGE BENEFIT @	45.40%	(of Direct Labor + Escalation)	\$7,638.45
GENERAL AND ADMINISTRATIVE @	74.60%	(of Direct Labor + Escalation)	\$12,551.28
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$3,701.45
TOTAL MULTIPLIERS			\$24,016.43

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1	LS	@	\$200.00	\$200.00
Mailing and Special Delivery	1	LS	@	\$250.00	\$250.00
Mileage and Travel	1	LS	@	\$440.75	\$440.75
Miscellaneous (Record Searches and Lab Supplies)	1	LS	@	\$1,000.000	\$1,000.00

TOTAL ODC'S **\$1,890.75**

TOTAL **\$42,606.71**

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: Applied Earthworks
 PROJECT: Replacement of Railroad Avenue Bridge over Fornat Wash [Br. No. 56C0099, FPN BRLO-5956(228)]
 SCOPE OF WORK: Preliminary Engineering & Environmental Documentation
 PHASE: Phase I
 DATE: December 21, 2016

TASK	PRINCIPAL IN CHARGE	ARCHITECTURAL HISTORIAN	SENIOR ARCHITECTURAL HISTORIAN	STAFF ARCHITECTURAL HISTORIAN	FIELD SUPERVISOR	FIELD TECHNICIAN	GIS ANALYST	GIS TECHNICIAN	ADMINISTRATIVE ASSISTANT	HOURS	COST
	\$196.27	\$102.82	\$131.50	\$85.87	\$88.82	\$70.00	\$93.14	\$82.65	\$79.43		

	3	53	21	162	38	30	39	47	63	6	20	456
Total Manhours	2	12								6		2,103
1.1 Project Management												
1.2 Project Team Meetings												
1.3 Quality Control and Quality Assurance (QC/QA)												
2.0 Research and Data Gathering												
2.1 Collect and Review Existing Information												
2.2 Conduct Field Review												
3.0 Preliminary Engineering												
3.1 Traffic Study (Technical Memorandum/Traffic Summary)												
3.2 Preliminary Utility Mapping												
3.3 Permits												
3.4 Surveying and Right-of-Way Mapping (by County)												
3.5 Preliminary Geotechnical Studies												
3.6 Right-of-Way Requirements Map												
3.7 Geometric Approval Drawings												
3.8 Structure Advance Planning Study												
3.9 Hydrologic, Hydraulic and Scour Studies												
3.10 Advisory and Mandatory Fact Sheets												
3.11 Engineer's Estimate												
4.0 Environmental Clearance & Documentation												
4.1 Project Initiation												
4.2 Preliminary Environmental Study (PES)	1	1	1	2	8		1	4	2		19	1,700
4.3 Technical Studies												
4.3.1 Hazardous Waste (Initial Site Assessment)												
4.3.2 Preliminary Site Assessment (Step-2)												
4.3.3 Water Quality Assessment Studies												
4.3.4 Natural Environmental Study												
4.3.5 Wetland Delineation and Assessment												
4.3.6 Section 4(f) Evaluation (Individual Finding)												
4.3.7 Visual Resources (Minor Visual Impact Assessment)	8	2	2	10			4		1		25	2,397
4.3.8 Culture Resources Study												
APE	2	2	1	4			4	4	4		19	1,702
ASR	3	3	4	4	30	30	2	4	6		79	6,410
HRER	1	1	7	48			2	8	8		74	6,631

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Applied Earthworks	SCOPE OF WORK: Environmental	PHASE: All Phases
PROJECT: Replacement of Railroad Avenue Bridge over East Channel Stubbe Wash [Br. No. 56C0101, FPN BRLO-5956(229)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
V. Mirro	Principal In Charge	3	@	\$80.50	\$241.50
J. Eddy	Principal Archeologist *	53	@	\$42.17	\$2,235.01
M. Colleen Hamilton	Senior Architectural Historian	21	@	\$54.10	\$1,136.10
J. Castells	Staff Architectural Historian	162	@	\$35.22	\$5,705.64
D. McDougall	Field Supervisor	38	@	\$36.43	\$1,384.34
P. Moloney	Field Technician	30	@	\$28.71	\$861.30
M. Mirro	GIS Analyst	39	@	\$38.20	\$1,489.80
C. Inoway	GIS Technician	47	@	\$33.90	\$1,593.30
S. Bircheff	Administrative Assistant	63	@	\$32.58	\$2,052.54

* Key Personnel

TOTAL HOURS 456 TOTAL DIRECT LABOR \$16,699.53

MULTIPLIERS

ESCALATION @	0.75%	(of Direct Labor)	\$125.25
FRINGE BENEFIT @	45.40%	(of Direct Labor + Escalation)	\$7,638.45
GENERAL AND ADMINISTRATIVE @	74.60%	(of Direct Labor + Escalation)	\$12,551.28
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$3,701.45
TOTAL MULTIPLIERS			\$24,016.43

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1	LS	@	\$200.00	\$200.00
Mailing and Special Delivery	1	LS	@	\$250.00	\$250.00
Mileage and Travel	1	LS	@	\$440.75	\$440.75
Miscellaneous (Record Searches and Lab Supplies)	1	LS	@	\$1,000.00	\$1,000.00

TOTAL ODC'S \$1,890.75

TOTAL \$42,606.71

ESTIMATE OF OTHER DIRECT COST (ODC) ITEMS

Replacement of Railroad Avenue Bridge over East Channel Stubbe Wash (Br. No. 56C0101)
 FPN: BRLO-5956(229)

Consultant: Applied Earthworks

Contract No.: _____

Date: 3/27/2017

Reproduction Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Copying	\$1.00	200	\$200.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$200.00
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Postage	\$50.00	5	\$250.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$250.00
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	450	\$240.75
Lodging	\$100.00	1	\$100.00
Rental/Fuel	\$100.00	1	\$100.00
			\$0.00
TOTAL BUDGET			\$440.75
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Records Search Fees	\$800.00	1	\$800.00
Archival Research Fees	\$50.00	2	\$100.00
	\$0.00	0	\$0.00
Expendable Field/Office/Lab Supplies	\$50.00	2	\$100.00
	\$0.00	0	\$0.00
SUBTOTAL COST			\$1,000.00
TOTAL ODCs			\$1,890.75

NOTES:

1. ODC items should be based on actual costs and supported by historical data and other documentation.
2. ODC items that would be considered "tools of the trade" are not reimbursable.
3. ODC items should be consistently billed directly to all clients, not just when client will pay for them as a direct cost.
4. ODC items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in overhead rate.

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Applied Earthworks	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Railroad Avenue Bridge over East Channel Stubbe Wash [Br. No. 56C0101, FPN BRLO-5956(229)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
V. Mirro	Principal In Charge	3	@	\$80.50	\$241.50
J. Eddy	Principal Archeologist	53	@	\$42.17	\$2,235.01
M. Colleen Hamilton	Senior Architectural Historian	21	@	\$54.10	\$1,136.10
J. Castells	Staff Architectural Historian	162	@	\$35.22	\$5,705.64
D. McDougall	Field Supervisor	38	@	\$36.43	\$1,384.34
P. Moloney	Field Technician	30	@	\$28.71	\$861.30
M. Mirro	GIS Analyst	39	@	\$38.20	\$1,489.80
C. Inoway	GIS Technician	47	@	\$33.90	\$1,593.30
S. Bircheff	Administrative Assistant	63	@	\$32.58	\$2,052.54

TOTAL HOURS **456** TOTAL DIRECT LABOR **\$16,699.53**

MULTIPLIERS

ESCALATION @	0.75%	(of Direct Labor)	\$125.25
FRINGE BENEFIT @	45.40%	(of Direct Labor + Escalation)	\$7,638.45
GENERAL AND ADMINISTRATIVE @	74.60%	(of Direct Labor + Escalation)	\$12,551.28
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$3,701.45
TOTAL MULTIPLIERS			\$24,016.43

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1	LS	@	\$200.00	\$200.00
Mailing and Special Delivery	1	LS	@	\$250.00	\$250.00
Mileage and Travel	1	LS	@	\$440.75	\$440.75
Miscellaneous (Record Searches and Lab Supplies)	1	LS	@	\$1,000.000	\$1,000.00

TOTAL ODC'S **\$1,890.75**

TOTAL **\$42,606.71**

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: Applied Earthworks
 PROJECT: Replacement of Railroad Avenue Bridge over East Channel Stubbe Wash [Br. No. 56C0101, FPN BRLO-5956(229)]
 SCOPE OF WORK: Preliminary Engineering & Environmental Documentation
 PHASE: Phase I
 DATE: March 27, 2017

TASK	PRINCIPAL IN CHARGE	ARCHITECTURAL HISTORIAN	SENIOR ARCHITECTURAL HISTORIAN	FIELD SUPERVISOR	FIELD TECHNICIAN	GIS ANALYST	GIS TECHNICIAN	ADMINISTRATIVE ASSISTANT	HOURS	COST
	\$196.27	\$102.82	\$131.90	\$85.87	\$88.82	\$70.00	\$93.14	\$82.65	\$79.43	

Total Manhours 3 53 21 162 38 30 39 47 63 456

TASK	3	53	21	162	38	30	39	47	63	456	20	\$	2,103
1.1 Project Management	2	12								6			
1.2 Project Team Meetings													
1.3 Quality Control and Quality Assurance (QC/QA)													
2.0 Research and Data Gathering													
2.1 Collect and Review Existing Information													
2.2 Conduct Field Review													
3.0 Preliminary Engineering													
3.1 Traffic Study (Technical Memorandum/Traffic Summary)													
3.2 Preliminary Utility Mapping													
3.3 Permits													
3.4 Surveying and Right-of-Way Mapping (by County)													
3.5 Preliminary Geotechnical Studies													
3.6 Right-of-Way Requirements Map													
3.7 Geometric Design Drawings													
3.8 Structure Advance Planning Study													
3.9 Hydrologic, Hydraulic and Scour Studies													
3.10 Advisory and Mandatory Fact Sheets													
3.11 Engineer's Estimate													
4.0 Environmental Clearance & Documentation													
4.1 Project Initiation													
4.2 Preliminary Environmental Study (PES)	1	1	1	2	8		1	4	2		19	\$	1,700
4.3 Technical Studies													
4.3.1 Hazardous Waste (Initial Site Assessment)													
4.3.2 Preliminary Site Assessment (Step 2)													
4.3.3 Water Quality Assessment Studies													
4.3.4 Natural Environmental Study and Focused Wildlife Surveys													
4.3.5 Wetland Delineation and Assessment													
4.3.6 Section 4(f) Evaluation (Individual Finding)	8	2	2	10			4		1		25	\$	2,397
4.3.7 Visual Resources (Visual Impact Assessment)													
4.3.8 Culture Resources Study													
APE	2	1	1	4			4		4		19	\$	1,702
ASR	3	3	3	4	30	30	2	4	6		79	\$	6,410

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Applied Earthworks	SCOPE OF WORK: Environmental	PHASE: All Phases
PROJECT: Replacement of Chuckwalla Valley Road over Aztec Ditch [Br. No. 56C0102, FPN BRLO-5956(239)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
V. Mirro	Principal In Charge	3	@ \$80.50	\$241.50
J. Eddy	Principal Archeologist *	27	@ \$42.17	\$1,138.59
M. Colleen Hamilton	Senior Architectural Historian	11	@ \$54.10	\$595.10
J. Castells	Staff Architectural Historian	81	@ \$35.22	\$2,852.82
D. McDougall	Field Supervisor	19	@ \$36.43	\$692.17
P. Moloney	Field Technician	10	@ \$28.71	\$287.10
M. Mirro	GIS Analyst	19	@ \$38.20	\$725.80
C. Inoway	GIS Technician	24	@ \$33.90	\$813.60
S. Bircheff	Administrative Assistant	29	@ \$32.58	\$944.82

* Key Personnel

TOTAL HOURS 223 TOTAL DIRECT LABOR \$8,291.50

MULTIPLIERS

ESCALATION @	0.75% (of Direct Labor)	\$62.19
FRINGE BENEFIT @	45.40% (of Direct Labor + Escalation)	\$3,792.57
GENERAL AND ADMINISTRATIVE @	74.60% (of Direct Labor + Escalation)	\$6,231.85
PROFIT (FIXED FEE) @	10.0% (of Direct Labor + Escalation + Overhead)	\$1,837.81
TOTAL MULTIPLIERS		\$11,924.42

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction	1	LS @	\$200.00	\$200.00
Mailing and Special Delivery	1	LS @	\$250.00	\$250.00
Mileage and Travel	1	LS @	\$440.75	\$440.75
Miscellaneous (Record Searches and Lab Supplies)	1	LS @	\$1,000.00	\$1,000.00

TOTAL ODC'S \$1,890.75

TOTAL \$22,106.67

ESTIMATE OF OTHER DIRECT COST (ODC) ITEMS

Replacement of Chuckwalla Valley Road Bridge over Aztec Ditch (Br. No. 56C0102)
 FPN: BRLO-5956(239)

Consultant: Applied Earthworks

Contract No.: _____

Date: 3/27/2017

Reproduction Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Copying	\$1.00	200	\$200.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$200.00
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Postage	\$50.00	5	\$250.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$250.00
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	450	\$240.75
Lodging	\$100.00	1	\$100.00
Rental/Fuel	\$100.00	1	\$100.00
			\$0.00
TOTAL BUDGET			\$440.75
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Records Search Fees	\$800.00	1	\$800.00
Archival Research Fees	\$50.00	2	\$100.00
	\$0.00	0	\$0.00
Expendable Field/Office/Lab Supplies	\$50.00	2	\$100.00
	\$0.00	0	\$0.00
SUBTOTAL COST			\$1,000.00
TOTAL ODCs			\$1,890.75

NOTES:

1. ODC items should be based on actual costs and supported by historical data and other documentation.
2. ODC items that would be considered "tools of the trade" are not reimbursable.
3. ODC items should be consistently billed directly to all clients, not just when client will pay for them as a direct cost.
4. ODC items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in overhead rate.

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Applied Earthworks	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Chuckwalla Valley Road over Aztec Ditch [Br. No. 56C0102, FPN BRLO-5956(239)]		DATE: December 21, 2016

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
V. Mirro	Principal In Charge	3	@	\$80.50	\$241.50
J. Eddy	Principal Archeologist	27	@	\$42.17	\$1,138.59
M. Colleen Hamilton	Senior Architectural Historian	11	@	\$54.10	\$595.10
J. Castells	Staff Architectural Historian	81	@	\$35.22	\$2,852.82
D. McDougall	Field Supervisor	19	@	\$36.43	\$692.17
P. Moloney	Field Technician	10	@	\$28.71	\$287.10
M. Mirro	GIS Analyst	19	@	\$38.20	\$725.80
C. Inoway	GIS Technician	24	@	\$33.90	\$813.60
S. Bircheff	Administrative Assistant	29	@	\$32.58	\$944.82

TOTAL HOURS **223** TOTAL DIRECT LABOR **\$8,291.50**

MULTIPLIERS

ESCALATION @	0.75%	(of Direct Labor)	\$62.19
FRINGE BENEFIT @	45.40%	(of Direct Labor + Escalation)	\$3,792.57
GENERAL AND ADMINISTRATIVE @	74.60%	(of Direct Labor + Escalation)	\$6,231.85
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$1,837.81
TOTAL MULTIPLIERS			\$11,924.42

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1	LS	@	\$200.00	\$200.00
Mailing and Special Delivery	1	LS	@	\$250.00	\$250.00
Mileage and Travel	1	LS	@	\$440.75	\$440.75
Miscellaneous (Record Searches and Lab Supplies)	1	LS	@	\$1,000.00	\$1,000.00

TOTAL ODC'S **\$1,890.75**

TOTAL **\$22,106.67**

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: Applied Earthworks
 PROJECT: Replacement of Chukwalla Valley Road over Aztec Ditch [Br. No. 56C0102, FPN BRLO-5956(239)]
 SCOPE OF WORK: Preliminary Engineering & Environmental Documentation
 PHASE: Phase I
 DATE: December 21, 2016

TASK	PRINCIPAL IN CHARGE	ARCHITECT	ARCHITECTOLOGIST	SENIOR ARCHITECTURAL HISTORIAN	STAFF ARCHITECTURAL HISTORIAN	FIELD SUPERVISOR	FIELD TECHNICIAN	GIS ANALYST	GIS TECHNICIAN	ADMINISTRATIVE ASSISTANT	HOURS	COST
	\$196.27	\$102.82	\$131.90	\$85.87	\$88.82	\$70.00	\$93.14	\$82.65	\$79.43		223	

	3	27	11	81	19	10	19	24	29	5	13	\$
Total Manhours	2	6										
1.1 Project Management												
1.2 Project Team Meetings												
1.3 Quality Control and Quality Assurance (QC/QA)												
2.0 Research and Data Gathering												
2.1 Collect and Review Existing Information												
2.2 Conduct Field Review												
3.0 Preliminary Engineering												
3.1 Traffic Study (Technical Memorandum/Traffic Summary)												
3.2 Preliminary Utility Mapping												
3.3 Permits												
3.4 Surveying and Right-of-Way Mapping (by County)												
3.5 Preliminary Geotechnical Studies												
3.6 Right-of-Way Requirements Map												
3.7 Geometric Approval Drawings												
3.8 Structure Advance Planning Study												
3.9 Hydrologic, Hydraulic and Scour Studies												
3.10 Advisory and Mandatory Fact Sheets												
3.11 Engineer's Estimate												
4.0 Environmental Clearance & Documentation												
4.1 Project Initiation												
4.2 Preliminary Environmental Study (PES)	1	1	1	1	4	1	2	1			11	\$ 1,014
4.3 Technical Studies												
4.3.1 Hazardous Waste (Initial Site Assessment)												
4.3.2 Preliminary Site Assessment (Step-2)												
4.3.3 Water Quality Assessment Studies												
4.3.4 Natural Environmental Study												
4.3.5 Wetland Delineation and Assessment												
4.3.6 Section 4(f) Evaluation (Individual Finding)	4	1	5			2			1		13	\$ 1,238
4.3.7 Visual Resources (Minor Visual Impact Assessment)												
4.3.8 Culture Resources Study												
APE	1	0.5	2	2	15	10	2	2			8	\$ 725
ASR	1.5										33	\$ 2,729

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Applied Earthworks	SCOPE OF WORK: Environmental	PHASE: All Phases
PROJECT: Replacement of Chuckwalla Valley Road over Tarantula Ditch [Br. No. 56C0103, FPN BRLO-5956(227)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
V. Mirro	Principal In Charge	3	@	\$80.50	\$241.50
J. Eddy	Principal Archeologist *	27	@	\$42.17	\$1,138.59
M. Colleen Hamilton	Senior Architectural Historian	11	@	\$54.10	\$595.10
J. Castells	Staff Architectural Historian	81	@	\$35.22	\$2,852.82
D. McDougall	Field Supervisor	19	@	\$36.43	\$692.17
P. Moloney	Field Technician	10	@	\$28.71	\$287.10
M. Mirro	GIS Analyst	19	@	\$38.20	\$725.80
C. Inoway	GIS Technician	24	@	\$33.90	\$813.60
S. Bircheff	Administrative Assistant	29	@	\$32.58	\$944.82

* Key Personnel

TOTAL HOURS 223 TOTAL DIRECT LABOR \$8,291.50

MULTIPLIERS

ESCALATION @	0.75%	(of Direct Labor)	\$62.19
FRINGE BENEFIT @	45.40%	(of Direct Labor + Escalation)	\$3,792.57
GENERAL AND ADMINISTRATIVE @	74.60%	(of Direct Labor + Escalation)	\$6,231.85
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$1,837.81
TOTAL MULTIPLIERS			\$11,924.42

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1	LS	@	\$200.00	\$200.00
Mailing and Special Delivery	1	LS	@	\$250.00	\$250.00
Mileage and Travel	1	LS	@	\$440.75	\$440.75
Miscellaneous (Record Searches and Lab Supplies)	1	LS	@	\$1,000.00	\$1,000.00

TOTAL ODC'S \$1,890.75

TOTAL **\$22,106.67**

ESTIMATE OF OTHER DIRECT COST (ODC) ITEMS

Replacement of Chuckwalla Valley Road Bridge over Tarantula Ditch (Br. No. 56C0103)
FPN: BRLO-5956(227)

Consultant: Applied Earthworks

Contract No.: _____

Date: 3/27/2017

Reproduction Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Copying	\$1.00	200	\$200.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$200.00
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Postage	\$50.00	5	\$250.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$250.00
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	450	\$240.75
Lodging	\$100.00	1	\$100.00
Rental/Fuel	\$100.00	1	\$100.00
			\$0.00
TOTAL BUDGET			\$440.75
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Records Search Fees	\$800.00	1	\$800.00
Archival Research Fees	\$50.00	2	\$100.00
	\$0.00	0	\$0.00
Expendable Field/Office/Lab Supplies	\$50.00	2	\$100.00
	\$0.00	0	\$0.00
SUBTOTAL COST			\$1,000.00
TOTAL ODCs			\$1,890.75

NOTES:

1. ODC items should be based on actual costs and supported by historical data and other documentation.
2. ODC items that would be considered "tools of the trade" are not reimbursable.
3. ODC items should be consistently billed directly to all clients, not just when client will pay for them as a direct cost.
4. ODC items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in overhead rate.

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Applied Earthworks	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Chuckwalla Valley Road over Tarantula Ditch [Br. No. 56C0103, FPN BRLO-5956(227)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
V. Mirro	Principal In Charge	3	@	\$80.50	\$241.50
J. Eddy	Principal Archeologist	27	@	\$42.17	\$1,138.59
M. Colleen Hamilton	Senior Architectural Historian	11	@	\$54.10	\$595.10
J. Castells	Staff Architectural Historian	81	@	\$35.22	\$2,852.82
D. McDougall	Field Supervisor	19	@	\$36.43	\$692.17
P. Moloney	Field Technician	10	@	\$28.71	\$287.10
M. Mirro	GIS Analyst	19	@	\$38.20	\$725.80
C. Inoway	GIS Technician	24	@	\$33.90	\$813.60
S. Bircheff	Administrative Assistant	29	@	\$32.58	\$944.82

TOTAL HOURS 223 TOTAL DIRECT LABOR \$8,291.50

MULTIPLIERS

ESCALATION @	0.75%	(of Direct Labor)	\$62.19
FRINGE BENEFIT @	45.40%	(of Direct Labor + Escalation)	\$3,792.57
GENERAL AND ADMINISTRATIVE @	74.60%	(of Direct Labor + Escalation)	\$6,231.85
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$1,837.81
TOTAL MULTIPLIERS			\$11,924.42

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1	LS	@	\$200.00	\$200.00
Mailing and Special Delivery	1	LS	@	\$250.00	\$250.00
Mileage and Travel	1	LS	@	\$440.75	\$440.75
Miscellaneous (Record Searches and Lab Supplies)	1	LS	@	\$1,000.00	\$1,000.00

TOTAL ODC'S \$1,890.75

TOTAL **\$22,106.67**

SUBCONSULTANT MANHOOUR WORKSHEET

COMPANY: Applied Earthworks
 PROJECT: Replacement of Chuckwalla Valley Road over Tarrantula Ditch [Br. No. 56C0103, FPN BRL0-5956(227)]
 SCOPE OF WORK: Preliminary Engineering & Environmental Documentation
 PHASE: Phase I
 DATE: March 27, 2017

TASK	PRINCIPAL IN CHARGE	ARCHIT. DRAFT	SENIOR ARCHITECTURAL HISTORIAN	STAFF ARCHITECTURAL HISTORIAN	FIELD SUPERVISOR	FIELD TECHNICIAN	GIS ANALYST	GIS TECHNICIAN	ADMINISTRATIVE ASSISTANT	HOURS	COST
	\$196.27	\$102.82	\$131.90	\$85.87	\$88.82	\$70.00	\$93.14	\$82.65	\$79.43		

	3	27	11	81	19	10	19	24	29	5	13	\$
Total Manhours	2	6									223	
1.1 Project Management												
1.2 Project Team Meetings												
1.3 Quality Control and Quality Assurance (QC/QA)												
2.0 Research and Data Gathering												
2.1 Collect and Review Existing Information												
2.2 Conduct Field Review												
3.0 Preliminary Engineering												
3.1 Traffic Study (Technical Memorandum/Traffic Summary)												
3.2 Preliminary Utility Mapping												
3.3 Permits												
3.4 Surveying and Right-of-Way Mapping (by County)												
3.5 Preliminary Geotechnical Studies												
3.6 Right-of-Way Requirements Map												
3.7 Geometric Approval Drawings												
3.8 Structure Advance Planning Study												
3.9 Hydrologic, Hydraulic and Scour Studies												
3.10 Advisory and Mandatory Fact Sheets												
3.11 Engineer's Estimate												
4.0 Environmental Clearance & Documentation												
4.1 Project Initiation												
4.2 Preliminary Environmental Study (PES)	1		1	1	4		1	2	1		11	\$ 1,014
4.3 Technical Studies												
4.3.1 Hazardous Waste (Initial Site Assessment)												
4.3.2 Preliminary Site Assessment (Step-2)												
4.3.3 Water Quality Assessment Studies												
4.3.4 Natural Environmental Study												
4.3.5 Wetland Delineation and Assessment												
4.3.6 Section 4(f) Evaluation (Individual Finding)	4		1	5			2		1		13	\$ 1,238
4.3.7 Visual Resources (Minor Visual Impact Assessment)												
4.3.8 Culture Resources Study												
APE	1		0.5	2			1.5	2	1		8	\$ 725
ASR	1.5			2	15	10	0.5	2	2		33	\$ 2,729

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Applied Earthworks	SCOPE OF WORK: Environmental	PHASE: All Phases
PROJECT: Replacement of Chuckwalla Valley Road over Sutro Ditch [Br. No. 56C0104, FPN BRLO-5956(226)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
V. Mirro	Principal In Charge	3	@ \$80.50	\$241.50
J. Eddy	Principal Archeologist *	27	@ \$42.17	\$1,138.59
M. Colleen Hamilton	Senior Architectural Historian	11	@ \$54.10	\$595.10
J. Castells	Staff Architectural Historian	81	@ \$35.22	\$2,852.82
D. McDougall	Field Supervisor	19	@ \$36.43	\$692.17
P. Moloney	Field Technician	10	@ \$28.71	\$287.10
M. Mirro	GIS Analyst	19	@ \$38.20	\$725.80
C. Inoway	GIS Technician	24	@ \$33.90	\$813.60
S. Bircheff	Administrative Assistant	29	@ \$32.58	\$944.82

* Key Personnel

TOTAL HOURS 223 TOTAL DIRECT LABOR \$8,291.50

MULTIPLIERS

ESCALATION @	0.75%	(of Direct Labor)	\$62.19
FRINGE BENEFIT @	45.40%	(of Direct Labor + Escalation)	\$3,792.57
GENERAL AND ADMINISTRATIVE @	74.60%	(of Direct Labor + Escalation)	\$6,231.85
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$1,837.81
TOTAL MULTIPLIERS			\$11,924.42

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction	1	LS @	\$200.00	\$200.00
Mailing and Special Delivery	1	LS @	\$250.00	\$250.00
Mileage and Travel	1	LS @	\$440.75	\$440.75
Miscellaneous (Record Searches and Lab Supplies)	1	LS @	\$1,000.00	\$1,000.00

TOTAL ODC'S \$1,890.75

TOTAL \$22,106.67

ESTIMATE OF OTHER DIRECT COST (ODC) ITEMS

Replacement of Chuckwalla Valley Road Bridge over Sutro Ditch (Br. No. 56C0104)
 FPN: BRLO-5956(226)

Consultant: Applied Earthworks

Contract No.: _____

Date: 3/27/2017

Reproduction Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Copying	\$1.00	200	\$200.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$200.00
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Postage	\$50.00	5	\$250.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$250.00
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	450	\$240.75
Lodging	\$100.00	1	\$100.00
Rental/Fuel	\$100.00	1	\$100.00
			\$0.00
TOTAL BUDGET			\$440.75
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Records Search Fees	\$800.00	1	\$800.00
Archival Research Fees	\$50.00	2	\$100.00
	\$0.00	0	\$0.00
Expendable Field/Office/Lab Supplies	\$50.00	2	\$100.00
	\$0.00	0	\$0.00
SUBTOTAL COST			\$1,000.00
TOTAL ODCs			\$1,890.75

NOTES:

1. ODC items should be based on actual costs and supported by historical data and other documentation.
2. ODC items that would be considered "tools of the trade" are not reimbursable.
3. ODC items should be consistently billed directly to all clients, not just when client will pay for them as a direct cost.
4. ODC items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in overhead rate.

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Applied Earthworks	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Chuckwalla Valley Road over Sutro Ditch [Br. No. 56C0104, FPN BRLO-5956(226)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT	
V. Mirro	Principal In Charge	3	@	\$80.50	\$241.50	
J. Eddy	Principal Archeologist	27	@	\$42.17	\$1,138.59	
M. Colleen Hamilton	Senior Architectural Historian	11	@	\$54.10	\$595.10	
J. Castells	Staff Architectural Historian	81	@	\$35.22	\$2,852.82	
D. McDougall	Field Supervisor	19	@	\$36.43	\$692.17	
P. Moloney	Field Technician	10	@	\$28.71	\$287.10	
M. Mirro	GIS Analyst	19	@	\$38.20	\$725.80	
C. Inoway	GIS Technician	24	@	\$33.90	\$813.60	
S. Bircheff	Administrative Assistant	29	@	\$32.58	\$944.82	
		TOTAL HOURS		223	TOTAL DIRECT LABOR	\$8,291.50

MULTIPLIERS

ESCALATION @	0.75%	(of Direct Labor)	\$62.19
FRINGE BENEFIT @	45.40%	(of Direct Labor + Escalation)	\$3,792.57
GENERAL AND ADMINISTRATIVE @	74.60%	(of Direct Labor + Escalation)	\$6,231.85
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$1,837.81
TOTAL MULTIPLIERS			\$11,924.42

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT	
Reproduction	1	LS	@	\$200.00	\$200.00	
Mailing and Special Delivery	1	LS	@	\$250.00	\$250.00	
Mileage and Travel	1	LS	@	\$440.75	\$440.75	
Miscellaneous (Record Searches and Lab Supplies)	1	LS	@	\$1,000.00	\$1,000.00	
					TOTAL ODC'S	\$1,890.75

TOTAL **\$22,106.67**

SUBCONSULTANT MANHOUR WORKSHEET

COMPANY: Applied Earthworks	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Chukwalla Valley Road over Sutro Ditch [Br. No. 56C0104, FPN BRLO-5956(226)]		DATE: March 27, 2017

TASK	PRINCIPAL IN CHARGE	ARCHITECT	SENIOR ARCHITECTURAL HISTORIAN	STAFF ARCHITECTURAL HISTORIAN	FIELD SUPERVISOR	FIELD TECHNICIAN	GIS ANALYST	GIS TECHNICIAN	ADMINISTRATIVE ASSISTANT	HOURS	COST
										223	

	3	27	11	81	19	10	19	24	29	5	13	\$
Total Manhours	3	27	11	81	19	10	19	24	29	5	13	\$ 1,407
1.1 Project Management												
1.2 Project Team Meetings												
1.3 Quality Control and Quality Assurance (QC/QA)												
2.0 Research and Data Gathering												
2.1 Collect and Review Existing Information												
2.2 Conduct Field Review												
3.0 Preliminary Engineering												
3.1 Traffic Study (Technical Memorandum/Traffic Summary)												
3.2 Preliminary Utility Mapping												
3.3 Permits												
3.4 Surveying and Right-of-Way Mapping (by County)												
3.5 Preliminary Geotechnical Studies												
3.6 Right-of-Way Requirements Map												
3.7 Geometric Approval Drawings												
3.8 Structure Advance Planning Study												
3.9 Hydrologic, Hydraulic and Scour Studies												
3.10 Advisory and Mandatory Fact Sheets												
3.11 Engineer's Estimate												
4.0 Environmental Clearance & Documentation												
4.1 Project Initiation												
4.2 Preliminary Environmental Study (PES)	1	1	1	1	4		1	2	1		11	\$ 1,014
4.3 Technical Studies												
4.3.1 Hazardous Waste (Initial Site Assessment)												
4.3.2 Preliminary Site Assessment (Step-2)												
4.3.3 Water Quality Assessment Studies												
4.3.4 Natural Environmental Study												
4.3.5 Wetland Delineation and Assessment												
4.3.6 Section 4(f) Evaluation (Individual Finding)												
4.3.7 Visual Resources (Minor Visual Impact Assessment)	4	1	1	5			2		1		13	\$ 1,238
4.3.8 Culture Resources Study												
APE	1	0.5	2	2	15	10	0.5	2	2	1	8	\$ 725
ASR	1.5		2	2				2	2		33	\$ 2,729
HRER	0.5	3.5	19	19	1	4.5	3				32	\$ 2,848

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Applied Earthworks	SCOPE OF WORK: Environmental	PHASE: All Phases
PROJECT: Replacement of Chuckwalla Valley Road over Acari Ditch [Br. No. 56C0108, FPN BRLO-5956(225)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
V. Mirro	Principal In Charge	3	@ \$80.50	\$241.50
J. Eddy	Principal Archeologist *	27	@ \$42.17	\$1,138.59
M. Colleen Hamilton	Senior Architectural Historian	11	@ \$54.10	\$595.10
J. Castells	Staff Architectural Historian	81	@ \$35.22	\$2,852.82
D. McDougall	Field Supervisor	19	@ \$36.43	\$692.17
P. Moloney	Field Technician	10	@ \$28.71	\$287.10
M. Mirro	GIS Analyst	19	@ \$38.20	\$725.80
C. Inoway	GIS Technician	24	@ \$33.90	\$813.60
S. Bircheff	Administrative Assistant	29	@ \$32.58	\$944.82

* Key Personnel

TOTAL HOURS **223** TOTAL DIRECT LABOR **\$8,291.50**

MULTIPLIERS

ESCALATION @	0.75% (of Direct Labor)	\$62.19
FRINGE BENEFIT @	45.40% (of Direct Labor + Escalation)	\$3,792.57
GENERAL AND ADMINISTRATIVE @	74.60% (of Direct Labor + Escalation)	\$6,231.85
PROFIT (FIXED FEE) @	10.0% (of Direct Labor + Escalation + Overhead)	\$1,837.81
TOTAL MULTIPLIERS		\$11,924.42

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction	1	LS @	\$200.00	\$200.00
Mailing and Special Delivery	1	LS @	\$250.00	\$250.00
Mileage and Travel	1	LS @	\$440.75	\$440.75
Miscellaneous (Record Searches and Lab Supplies)	1	LS @	\$1,000.00	\$1,000.00

TOTAL ODC'S **\$1,890.75**

TOTAL **\$22,106.67**

ESTIMATE OF OTHER DIRECT COST (ODC) ITEMS

Replacement of Chuckwalla Valley Road Bridge over Acari Ditch (Br. No. 56C0108)
 FPN: BRLO-5956(225)

Consultant: Applied Earthworks

Contract No.: _____

Date: 3/27/2017

Reproduction Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Copying	\$1.00	200	\$200.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$200.00
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Postage	\$50.00	5	\$250.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$250.00
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	450	\$240.75
Lodging	\$100.00	1	\$100.00
Rental/Fuel	\$100.00	1	\$100.00
			\$0.00
TOTAL BUDGET			\$440.75
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Records Search Fees	\$800.00	1	\$800.00
Archival Research Fees	\$50.00	2	\$100.00
	\$0.00	0	\$0.00
Expendable Field/Office/Lab Supplies	\$50.00	2	\$100.00
	\$0.00	0	\$0.00
SUBTOTAL COST			\$1,000.00
TOTAL ODCs			\$1,890.75

NOTES:

1. ODC items should be based on actual costs and supported by historical data and other documentation.
2. ODC items that would be considered "tools of the trade" are not reimbursable.
3. ODC items should be consistently billed directly to all clients, not just when client will pay for them as a direct cost.
4. ODC items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in overhead rate.

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: Applied Earthworks	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Chuckwalla Valley Road over Acari Ditch [Br. No. 56C0108, FPN BRLO-5956(225)]		DATE: December 21, 2016

DIRECT LABOR

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
V. Mirro	Principal In Charge	3	@	\$80.50	\$241.50
J. Eddy	Principal Archeologist	27	@	\$42.17	\$1,138.59
M. Colleen Hamilton	Senior Architectural Historian	11	@	\$54.10	\$595.10
J. Castells	Staff Architectural Historian	81	@	\$35.22	\$2,852.82
D. McDougall	Field Supervisor	19	@	\$36.43	\$692.17
P. Moloney	Field Technician	10	@	\$28.71	\$287.10
M. Mirro	GIS Analyst	19	@	\$38.20	\$725.80
C. Inoway	GIS Technician	24	@	\$33.90	\$813.60
S. Bircheff	Administrative Assistant	29	@	\$32.58	\$944.82

TOTAL HOURS 223 TOTAL DIRECT LABOR \$8,291.50

MULTIPLIERS

ESCALATION @	0.75%	(of Direct Labor)	\$62.19
FRINGE BENEFIT @	45.40%	(of Direct Labor + Escalation)	\$3,792.57
GENERAL AND ADMINISTRATIVE @	74.60%	(of Direct Labor + Escalation)	\$6,231.85
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$1,837.81
TOTAL MULTIPLIERS			\$11,924.42

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1	LS	@	\$200.00	\$200.00
Mailing and Special Delivery	1	LS	@	\$250.00	\$250.00
Mileage and Travel	1	LS	@	\$440.75	\$440.75
Miscellaneous (Record Searches and Lab Supplies)	1	LS	@	\$1,000.00	\$1,000.00

TOTAL ODC'S \$1,890.75

TOTAL \$22,106.67

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: ICF Jones & Stokes	SCOPE OF WORK: Environmental Documentation	PHASE: All Phases
PROJECT: Replacement of Six Chuckwalla Valley Road and Railroad Avenue Bridges [BRLO-5956(228), BRLO-5956(229), BRLO-5956(239), BRLO-5956(227), BRLO-5956(226), BRLO-5956(225)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT	
Hoisington G	Managing Consultant	428	@ \$50.00	\$21,400.00	
Klinefelter K	Technician Trainee	364	@ \$31.50	\$11,466.00	
Flores M	Senior Consultant I	420	@ \$34.29	\$14,401.80	
Swiontek S - <i>On-Call</i>	Senior Consultant I	274	@ \$30.06	\$8,236.44	
Calvert B	Project Director *	50	@ \$80.73	\$4,036.50	
Irvin E	Associate Consultant I	64	@ \$38.85	\$2,486.40	
Souliotes D	Admin Technician	16	@ \$18.15	\$290.40	
		TOTAL HOURS	1,616	TOTAL DIRECT LABOR	\$62,317.54

* Key Personnel

MULTIPLIERS

ESCALATION @	1.655%	(of Direct Labor)	\$1,031.36
FTE OVERHEAD @ (W/ A FRINGE BENEFIT OF 35.72%)	169.50%	(of Direct Labor + Escalation)	\$93,184.56
<i>On-Call Employee OVERHEAD @ (W/ A FRINGE BENEFIT OF 10.6%)</i>	80.12%	(of Direct Labor + Escalation)	\$6,708.25
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$16,324.17
TOTAL MULTIPLIERS			\$117,248.34

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction	1	LS @	\$7,320.00	\$7,320.00
Mailing and Special Delivery	1	LS @	\$5,019.90	\$5,019.90
Mileage and Travel	1	LS @	\$770.400	\$770.40

TOTAL ODC'S \$13,110.30

TOTAL \$192,676.18

EXHIBIT 10-H COST PROPOSAL
ACTUAL COST-PLUS-FIXED FEE OR LUMP SUM (FIRM FIXED PRICE) CONTRACTS
(CALCULATIONS FOR ANTICIPATED SALARY INCREASES)

Consultant ICF Jones and Stokes Contract No. _____ Date 3/27/2017

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

Direct Labor Subtotal per Cost Proposal	Total Hours per Cost Proposal	=	Avg Hourly Rate	5 Year Contract Duration
\$62,318	1616	=	\$38.56	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	\$38.56	+	3.0%	=	\$39.72	Year 2 Avg Hourly Rate
Year 2	\$39.72	+	3.0%	=	\$40.91	Year 3 Avg Hourly Rate
Year 3	\$40.91	+	3.0%	=	\$42.14	Year 4 Avg Hourly Rate
Year 4	\$42.14	+	3.0%	=	\$43.40	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	50.00%	*	1616.0	=	808.0	Estimated Hours Year 1
Year 2	45.00%	*	1616.0	=	727.2	Estimated Hours Year 2
Year 3	5.00%	*	1616.0	=	80.8	Estimated Hours Year 3
Year 4	0.00%	*	1616.0	=	0.0	Estimated Hours Year 4
Year 5	0.00%	*	1616.0	=	0.0	Estimated Hours Year 5
Total	100%		Total	=	1616.0	

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	\$38.56	*	808	=	\$31,159.00	Estimated Hours Year 1
Year 2	\$39.72	*	727	=	\$28,884.39	Estimated Hours Year 2
Year 3	\$40.91	*	81	=	\$3,305.66	Estimated Hours Year 3
Year 4	\$42.14	*	0	=	\$0.00	Estimated Hours Year 4
Year 5	\$43.40	*	0	=	\$0.00	Estimated Hours Year 5
	Total Direct Labor Cost with Escalation			=	\$63,349.05	
	Direct Labor Subtotal before Escalation			=	\$62,318.00	
	Estimated total of Direct Labor Salary Increase (Dollar Amount)			=	\$1,031.05	Transfer to Cost Proposal
	Estimated total of Direct Labor Salary Increase (%)			=	1.655%	Transfer to Cost Proposal

NOTES:

- This is not the only way to estimate salary increases. Other methods will be accepted if they clearly indicate the % increase, the # of years of the contract, and a breakdown of the labor to be performed each year.
- An estimation that is based on direct labor multiplied by salary increase % multiplied by the # of years is not acceptable. (i.e. \$250,000 x 2% x 5 yrs = \$25,000 is not an acceptable methodology)
- This assumes that one year will be worked at the rate on the cost proposal before salary increases are granted.

ESTIMATE OF OTHER DIRECT COST (ODC) ITEMS

REPLACEMENT OF SIX CHUCKWALLA VALLEY ROAD AND RAILROAD AVENUE BRIDGES
 FPN: BRLO-5956(228), BRLO-5956(229), BRLO-5956(239), BRLO-5956(227), BRLO-5956(226),
 BRLO-5956(225)

Consultant: ICF Jones & Stokes

Contract No.: _____

Date: 3/27/2017

Reproduction Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
8.5"X11" B/W	\$0.06	75000	\$4,500.00
11"X17" B/W	\$0.12	7500	\$900.00
BINDING	\$5.00	84	\$420.00
8.5"X11" COLOR	\$0.10	9000	\$900.00
11"X17" COLOR	\$0.20	3000	\$600.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$7,320.00
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Priority Mail	\$18.85	24	\$452.40
FedEx	\$54.38	84	\$4,567.50
			\$0.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$5,019.90
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	1440	\$770.40
			\$0.00
			\$0.00
			\$0.00
TOTAL BUDGET			\$770.40
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
	\$0.00	0	\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
SUBTOTAL COST			\$0.00
			\$0.00
TOTAL ODCs			\$13,110.30

NOTES:

1. ODC items should be based on actual costs and supported by historical data and other documentation.
2. ODC items that would be considered "tools of the trade" are not reimbursable.
3. ODC items should be consistently billed directly to all clients, not just when client will pay for them as a direct cost.
4. ODC items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in overhead rate.

SUBCONSULTANT FEE PROPOSAL WORKSHEET

COMPANY: ICF Jones & Stokes	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Six Chuckwalla Valley Road and Railroad Avenue Bridges [BRLO-5956(228), BRLO-5956(229), BRLO-5956(239), BRLO-5956(227), BRLO-5956(226), BRLO-5956(225)]		DATE: March 27, 2017

DIRECT LABOR

PERSONNEL	POSITION	HOURS	RATE	AMOUNT	
Hoisington G	Managing Consultant	428	@ \$50.00	\$21,400.00	
Klinefelter K	Technician Trainee	364	@ \$31.50	\$11,466.00	
Flores M	Senior Consultant I	420	@ \$34.29	\$14,401.80	
Swiontek S - On-Call	Senior Consultant I	274	@ \$30.06	\$8,236.44	
Calvert B	Project Director	50	@ \$80.73	\$4,036.50	
Irvin E	Associate Consultant I	64	@ \$38.85	\$2,486.40	
Souliotes D	Admin Technician	16	@ \$18.15	\$290.40	
		TOTAL HOURS	1,616	TOTAL DIRECT LABOR	\$62,317.54

MULTIPLIERS

ESCALATION @	1.655%	(of Direct Labor)	\$1,031.36
FTE OVERHEAD @ (W/ A FRINGE BENEFIT OF 35.72%)	169.50%	(of Direct Labor + Escalation)	\$93,184.56
<i>On-Call Employee OVERHEAD @ (W/ A FRINGE BENEFIT OF 10.6%)</i>	80.12%	(of Direct Labor + Escalation)	\$6,708.25
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$16,324.17
TOTAL MULTIPLIERS			\$117,248.34

OTHER DIRECT COSTS

*** Billed at Actual Cost (See ODC Cost Estimate Work Sheet) ***

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction	1	LS @	\$7,320.00	\$7,320.00
Mailing and Special Delivery	1	LS @	\$5,019.90	\$5,019.90
Mileage and Travel	1	LS @	\$770.400	\$770.40
TOTAL ODC'S				\$13,110.30

TOTAL **\$192,676.18**

SUBCONSULTANT MANHOUR WORKSHEET SUMMARY

COMPANY: ICF Jones & Stokes	PHASE: All Phases
PROJECT: Replacement of Six Chuckwalla Valley Road and Railroad Avenue Bridges [BRLO-5956(228), BRLO-5956(229), BRLO-5956(239), BRLO-5956(227), BRLO-5956(226), BRLO-5956(225)]	DATE: March 27, 2017

TASK	MANAGING CONSULTANT	TECHNICIAN TRAINEE	SENIOR CONSULTANT I	SENIOR CONSULTANT II	SENIOR CONSULTANT III	PROJECT DIRECTOR	ASSOCIATE CONSULTANT I	ADMIN TECHNICIAN	HOURS
	\$150.68	\$94.93	\$103.34	\$60.54	\$243.28	\$117.08	\$54.70		

PHASE TOTALS	428	364	420	274	50	64	16	1,616
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PHASE I	428	364	420	274	50	64	16	1,616
PHASE II								
PHASE III								
PHASE IV								

