

Replacement of Six Timber Bridges on Chuckwalla Valley Road and Railroad Avenue Bridges

Company: **KOA Corporation**

Position Title/Classification	Hourly Rate Range
Principal Engineer	\$83.00 - \$91.30
Senior Engineer	\$52.00 - \$68.00
Associate Planner	\$32.25 - \$45.00
Associate Designer	\$32.25 - \$39.00
Engineering Assistant	\$26.01- \$38.49
Administrative	\$25.00 - \$29.13

Company: **Overland, Pacific & Cutler, Inc.**

Senior Utility Coordinator	\$36.21 - \$45.85
Utility Manager	\$56.73 - \$71.85
Utility Coordinator	\$28.85- \$40.52

**ARTICLE CIII • INVOICING**

ENGINEER shall submit invoices in accordance with the Engineering Services Agreement ARTICLE VI • COMPENSATION and with the following requirements.

1. Charges shall be billed in accordance with the terms and rates included herein, unless otherwise agreed in writing by the County Contract Administrator.
2. Base Work and Extra Work shall be charged separately, and the charges for each Phase listed in Appendix B, Schedule of Services, shall be listed separately. The charges for each individual assigned under this Agreement shall be listed separately.
3. Charges of \$500.00 or more for any one item of Additional Direct Costs shall be accompanied by substantiating documentation such as invoices, telephone logs, etc.
4. Each invoice shall indicate payments to DBE subconsultants or supplies by dollar amount and as a percentage of the total invoice and shall state the DBE goals as a percentage of Total Agreement Value.



## Engineering and Environmental Services

**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)] Fee Proposal Summary**

September 14, 2017

COMPANIES	PHASE I	PHASE II	PHASE III	PHASE IV	TOTAL
CNS Engineers, Inc. Prime	\$ 396,311.95	\$ 939,955.20	\$ 14,005.70	\$ 84,740.99	\$ 1,435,013.83
WSP   Parsons Brinckerhoff Environmental	\$ 577,090.37	\$ 83,884.68			\$ 660,975.05
Applied Earthwork Environmental	\$ 173,640.10				\$ 173,640.10
ICF Jones & Stokes Environmental	\$ 192,676.16				\$ 192,676.16
Aguilar Consulting, Inc. (ACI) Channel Hydraulics	\$ 126,872.18				\$ 126,872.18
Group Delta Consultants Geotechnical and ISA	\$ 131,481.96	\$ 22,203.18			\$ 153,685.14
CASC Engineering and Consulting Water Quality	\$ 41,806.98	\$ 32,670.06	\$ 1,962.72	\$ 3,925.44	\$ 80,365.20
KOA Corporation Traffic	\$ 15,304.86	\$ 49,633.46	\$ 2,827.90	\$ 4,852.80	\$ 72,619.02
Overland, Pacific & Cutler Utilities	\$ 48,913.58	\$ 38,311.08			\$ 87,224.66
<b>TOTAL</b>	<b>\$ 1,704,098.14</b>	<b>\$ 1,166,657.66</b>	<b>\$ 18,796.32</b>	<b>\$ 93,519.23</b>	<b>\$ 2,983,071.34</b>

- Phase I Preliminary Engineering & Environmental Documentation
- Phase II Plans, Specifications & Estimate (PS&E)
- Phase III Construction Bidding and Award Supports
- Phase IV Design Construction Supports

**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Project Summary</b>	PHASE: <b>All Phases</b>
PROJECT: <b>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)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
James J. Lu	Senior Project Manager *	942	@	\$83.25	\$78,421.50
Quyett T. Nguyen	Senior Bridge Engineer	1,042	@	\$57.50	\$59,915.00
Steve Hosford	Senior Roadway Engineer	1,680	@	\$57.25	\$96,180.00
Lynn Odogiiv	Design Engineer III	1,940	@	\$44.60	\$86,524.00
Justin Nguyen	Design Engineer I	1,128	@	\$36.00	\$40,608.00
Nan Li	Senior CADD Technician	2,750	@	\$35.00	\$96,250.00
Hui-Min Huang	Project Controller	60	@	\$54.50	\$3,270.00

\* Key Personnel

TOTAL HOURS **9,542** TOTAL DIRECT LABOR **\$461,168.50**

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$21,144.58
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$254,854.23
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$537,345.00
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$127,451.23
TOTAL MULTIPLIERS			<b>\$940,795.03</b>

**OTHER DIRECT COSTS**

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

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1	LS	@	\$7,632.00	\$7,632.00
Mailing and Special Delivery	1	LS	@	\$699.30	\$699.30
Mileage and Travel	1	LS	@	\$3,711.00	\$3,711.00
Miscellaneous (Conference Calls and Supplemental Design Surveys)	1	LS	@	\$21,008.00	\$21,008.00

TOTAL ODC'S **\$33,050.30**

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC'S	TOTAL
WSP   Parsons Brinckerhoff	\$218,180.59	\$405,130.66	\$37,663.80	\$660,975.05
Applied Earthwork	\$66,565.06	\$95,730.54	\$11,344.50	\$173,640.10
ICF Jones & Stokes	\$62,317.54	\$117,248.32	\$13,110.30	\$192,676.16
Aguilar Consulting, Inc. (ACI)	\$49,767.68	\$72,676.50	\$4,428.00	\$126,872.18
Group Delta Consultants	\$35,916.12	\$77,464.02	\$40,305.00	\$153,685.14
CASC Engineering and Consulting	\$26,303.50	\$52,636.10	\$1,425.60	\$80,365.20
KOA Corporation	\$24,114.00	\$46,042.02	\$2,463.00	\$72,619.02
Overland, Pacific & Cutler	\$26,843.88	\$53,024.78	\$7,356.00	\$87,224.66

TOTAL SUBCONSULTANT SERVICES **\$1,548,057.51**

TOTAL **\$2,983,071.34**

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

Consultant CNS Engineers, Inc. Contract No. \_\_\_\_\_ Date 3/27/2016

**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
\$461,169	9542	=	\$48.33	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	\$48.33	+	2.5%	=	\$49.54 Year 2 Avg Hourly Rate
Year 2	\$49.54	+	2.5%	=	\$50.78 Year 3 Avg Hourly Rate
Year 3	\$50.78	+	2.5%	=	\$52.05 Year 4 Avg Hourly Rate
Year 4	\$52.05	+	2.5%	=	\$53.35 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	20.00%	*	9542.0	=	1908.4	Estimated Hours Year 1
Year 2	10.00%	*	9542.0	=	954.2	Estimated Hours Year 2
Year 3	45.00%	*	9542.0	=	4293.9	Estimated Hours Year 3
Year 4	20.00%	*	9542.0	=	1908.4	Estimated Hours Year 4
Year 5	5.00%	*	9542.0	=	477.1	Estimated Hours Year 5
Total	100%		Total	=	9542.0	

**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	\$48.33	*	1908	=	\$92,233.70	Estimated Hours Year 1
Year 2	\$49.54	*	954	=	\$47,269.77	Estimated Hours Year 2
Year 3	\$50.78	*	4294	=	\$218,031.82	Estimated Hours Year 3
Year 4	\$52.05	*	1908	=	\$99,325.61	Estimated Hours Year 4
Year 5	\$53.35	*	477	=	\$25,452.19	Estimated Hours Year 5
	Total Direct Labor Cost with Escalation			=	\$482,313.08	
	Direct Labor Subtotal before Escalation			=	\$461,168.50	
	Estimated total of Direct Labor Salary Increase (Dollar Amount)			=	\$21,144.58	Transfer to Cost Proposal
	Estimated total of Direct Labor Salary Increase (%)			=	4.585%	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: **CNS Engineers, Inc.**

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	15000	\$900.00
24"X36" COLOR BOARD	\$16.00	12	\$192.00
11"X17" B/W	\$0.10	1200	\$120.00
24"X36" B/W	\$5.00	600	\$3,000.00
24"X36" COLOR	\$10.00	12	\$120.00
BINDING	\$5.00	12	\$60.00
FULL SIZE (MYLER)	\$15.00	216	\$3,240.00
			\$0.00
			\$0.00
<b>SUBTOTAL COST</b>			<b>\$7,632.00</b>
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Priority Mail	\$6.65	42	\$279.30
FedEx	\$35.00	12	\$420.00
			\$0.00
<b>SUBTOTAL COST</b>			<b>\$699.30</b>
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	6600	\$3,531.00
Parking	\$5.00	36	\$180.00
<b>TOTAL BUDGET</b>			<b>\$3,711.00</b>
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Conference Calls	\$0.06	16800	\$1,008.00
On-call Supplemental Design Surveys	\$20,000.00	1	\$20,000.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
<b>SUBTOTAL COST</b>			<b>\$21,008.00</b>
<b>TOTAL ODCs</b>			<b>\$33,050.30</b>

**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.

**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Preliminary Engineering &amp; Environmental Documentation</b>	PHASE: <b>Phase I</b>
PROJECT: <b>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)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS		RATE	AMOUNT	
James J. Lu	Senior Project Manager	456	@	\$83.25	\$37,962.00	
Quyet T. Nguyen	Senior Bridge Engineer	194	@	\$57.50	\$11,155.00	
Steve Hosford	Senior Roadway Engineer	760	@	\$57.25	\$43,510.00	
Lynn Odgiiv	Design Engineer III			\$44.60		
Justin Nguyen	Design Engineer I	148	@	\$36.00	\$5,328.00	
Nan Li	Senior CADD Technician	578	@	\$35.00	\$20,230.00	
Hui-Min Huang	Project Controller	24	@	\$54.50	\$1,308.00	
		<b>TOTAL HOURS</b>		<b>2,160</b>	<b>TOTAL DIRECT LABOR</b>	<b>\$119,493.00</b>

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$5,478.75
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$66,035.07
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$139,231.03
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$33,023.79
<b>TOTAL MULTIPLIERS</b>			<b>\$243,768.65</b>

**OTHER DIRECT COSTS**

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

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1	LS	@	\$7,632.00	\$7,632.00
Mailing and Special Delivery	1	LS	@	\$699.300	\$699.30
Mileage and Travel	1	LS	@	\$3,711.00	\$3,711.00
Miscellaneous (Conference Calls and Supplemental Design Surveys)	1	LS	@	\$21,008.00	\$21,008.00
<b>TOTAL ODC'S</b>					<b>\$33,050.30</b>

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC'S	TOTAL
WSP   Parsons Brinckerhoff	\$188,818.03	\$350,608.54	\$37,663.80	\$577,090.37
Applied Earthwork	\$66,565.06	\$95,730.54	\$11,344.50	\$173,640.10
ICF Jones & Stokes	\$62,317.54	\$117,248.32	\$13,110.30	\$192,676.16
Aguilar Consulting, Inc. (ACI)	\$49,767.68	\$72,676.50	\$4,428.00	\$126,872.18
Group Delta Consultants	\$28,882.68	\$62,294.28	\$40,305.00	\$131,481.96
CASC Engineering and Consulting	\$13,455.50	\$26,925.88	\$1,425.60	\$41,806.98
KOA Corporation	\$4,414.00	\$8,427.86	\$2,463.00	\$15,304.86
Overland, Pacific & Cutler	\$13,967.52	\$27,590.06	\$7,356.00	\$48,913.58
<b>TOTAL SUBCONSULTANT SERVICES</b>				<b>\$1,307,786.19</b>

**TOTAL** **\$1,704,098.14**

**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Plans, Specifications &amp; Estimate (PS&amp;E)</b>	PHASE: <b>Phase II</b>
PROJECT: <b>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)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
James J. Lu	Senior Project Manager	416	@ \$83.25	\$34,632.00
Quyett T. Nguyen	Senior Bridge Engineer	704	@ \$57.50	\$40,480.00
Steve Hosford	Senior Roadway Engineer	794	@ \$57.25	\$45,456.50
Lynn Odgiiv	Design Engineer III	1,808	@ \$44.60	\$80,636.80
Justin Nguyen	Design Engineer I	980	@ \$36.00	\$35,280.00
Nan Li	Senior CADD Technician	2,040	@ \$35.00	\$71,400.00
Hui-Min Huang	Project Controller	24	@ \$54.50	\$1,308.00

TOTAL HOURS **6,766** TOTAL DIRECT LABOR **\$309,193.30**

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$14,176.51
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$170,868.61
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$360,266.31
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$85,450.47
TOTAL MULTIPLIERS			<b>\$630,761.90</b>

**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 (Conference Calls and Supplemental Design Surveys)		LS		

TOTAL ODC'S

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff	\$29,362.56	\$54,522.12		\$83,884.68
Applied Earthwork				
ICF Jones & Stokes				
Aguilar Consulting, Inc. (ACI)				
Group Delta Consultants	\$7,033.44	\$15,169.74		\$22,203.18
CASC Engineering and Consulting	\$10,886.00	\$21,784.06		\$32,670.06
KOA Corporation	\$17,060.00	\$32,573.46		\$49,633.46
Overland, Pacific & Cutler	\$12,876.36	\$25,434.72		\$38,311.08

TOTAL SUBCONSULTANT SERVICES **\$226,702.46**

TOTAL **\$1,166,657.66**



**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Construction Bidding and Award Supports</b>	PHASE: <b>Phase III</b>
PROJECT: <b>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)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS	RATE	AMOUNT	
James J. Lu	Senior Project Manager	14	@ \$83.25	\$1,165.50	
Quyett T. Nguyen	Senior Bridge Engineer	24	@ \$57.50	\$1,380.00	
Steve Hosford	Senior Roadway Engineer	24	@ \$57.25	\$1,374.00	
Lynn Odgiov	Design Engineer III	6	@ \$44.60	\$267.60	
Justin Nguyen	Design Engineer I		\$36.00		
Nan Li	Senior CADD Technician	12	@ \$35.00	\$420.00	
Hui-Min Huang	Project Controller		\$54.50		
		<b>TOTAL HOURS</b>	<b>80</b>	<b>TOTAL DIRECT LABOR</b>	<b>\$4,607.10</b>

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$211.24
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$2,546.01
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$5,368.11
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$1,273.25
<b>TOTAL MULTIPLIERS</b>			<b>\$9,398.60</b>

**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 (Conference Calls and Supplemental Design Surveys)		LS		
<b>TOTAL ODC'S</b>				

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff				
Applied Earthwork				
ICF Jones & Stokes				
Aguilar Consulting, Inc. (ACI)				
Group Delta Consultants				
CASC Engineering and Consulting	\$654.00	\$1,308.72		\$1,962.72
KOA Corporation	\$972.00	\$1,855.90		\$2,827.90
Overland, Pacific & Cutler				
<b>TOTAL SUBCONSULTANT SERVICES</b>				<b>\$4,790.62</b>

**TOTAL \$18,796.32**

**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Design Construction Supports</b>	PHASE: <b>Phase IV</b>
PROJECT: <b>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)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
James J. Lu	Senior Project Manager	56	@ \$83.25	\$4,662.00
Quyet T. Nguyen	Senior Bridge Engineer	120	@ \$57.50	\$6,900.00
Steve Hosford	Senior Roadway Engineer	102	@ \$57.25	\$5,839.50
Lynn Odiiv	Design Engineer III	126	@ \$44.60	\$5,619.60
Justin Nguyen	Design Engineer I		\$36.00	
Nan Li	Senior CADD Technician	120	@ \$35.00	\$4,200.00
Hui-Min Huang	Project Controller	12	@ \$54.50	\$654.00

TOTAL HOURS **536** TOTAL DIRECT LABOR **\$27,875.10**

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$1,278.07
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$15,404.54
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$32,479.55
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead )	\$7,703.73
<b>TOTAL MULTIPLIERS</b>			<b>\$56,865.89</b>

**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 (Conference Calls and Supplemental Design Surveys)		LS		

TOTAL ODC'S

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff				
Applied Earthwork				
ICF Jones & Stokes				
Aguilar Consulting, Inc. (ACI)				
Group Delta Consultants				
CASC Engineering and Consulting	\$1,308.00	\$2,617.44		\$3,925.44
KOA Corporation	\$1,668.00	\$3,184.80		\$4,852.80
Overland, Pacific & Cutler				

TOTAL SUBCONSULTANT SERVICES **\$8,778.24**

**TOTAL \$93,519.23**

**MANHOURLY WORKSHEET**

COMPANY: **CNS Engineers, Inc.**

SCOPE OF WORK: **Manhour Summary**

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: **September 14, 2017**

TASK	SENIOR PROJECT MANAGER	SENIOR BRIDGE ENGINEER	SENIOR ROADWAY ENGINEER	DESIGN ENGINEER III	DESIGN ENGINEER I	SENIOR CAD/ TECHNICIAN	PROJECT CONTROLLER	HOURS	(Top & Bottom) HOURS
	\$174.80	\$174.04	\$135.59	\$109.44	\$106.40	\$165.68			

PHASE TOTALS	942	1,042	1,680	1,940	1,128	2,750	60	9,542	9,542
PHASE I	456	194	760	148	578	24		2,160	2,160
PHASE II	416	704	794	1,808	980	2,040	24	6,766	6,766
PHASE III	14	24	24	6	12			80	80
PHASE IV	56	120	102	126	120	12		536	536

TASK	HOURS

**PHASE TOTALS**

PHASE I	
PHASE II	
PHASE III	
PHASE IV	



**MANHOUR WORKSHEET**

COMPANY: **CNS Engineers, Inc.**

PROJECT: **Replacement of Six Chuckwalla Valley Road and Railroad Avenue Bridges [BRLO-5956(228), BRLO-5956(229), BRLO-5956(239), BRLO-5956(226), BRLO-5956(227), BRLO-5956(225)]**

SCOPE OF WORK: **Preliminary Engineering & Environmental Documentation**

PHASE: **Phase I**

DATE: **September 14, 2017**

TASK	SENIOR PROJECT MANAGER	SENIOR BRIDGE ENGINEER	SENIOR PAVEMENT ENGINEER	SENIOR DESIGN ENGINEER	DESIGN ENGINEER II	DESIGN ENGINEER I	SENIOR CAD/TECHNICAL	PROJECT CONTROLLER	HOURS	COST
4.3.8 Culture Resources Study (APE/ASR/HRER/HPSR)										
APE										
ASR										
HRER										
HPSR										
4.3.9A Finding of Effect (FoE) (Step-2)										
4.3.9B Section 106 Memorandum of Agreement (MOA) (Step-2)										
4.3.10 CEQA Notice of Exemption (NOE)										
4.5 CEQANIEPA Initial Study/Environmental Assessment (IS/EA) (Step-2)										
4.5.1 Administrative Draft IS/EA	48									
4.5.2 Draft IS/EA for Public Review		60								
4.5.3 Public Review										
4.5.4 Draft Mitigated Negative Declaration/Finding of No Significant Impact (MND/FONS)										
4.5.5 Final MND/FONS										
									108	\$ 22,590









# Engineering and Environmental Services

**Replacement of Railroad Avenue Bridge over Fornat Wash [Br. No. 56C0099,  
FPN BRLO-5956(228)] Fee Proposal Summary**

September 14, 2017

COMPANIES	PHASE I	PHASE II	PHASE III	PHASE IV	TOTAL
CNS Engineers, Inc. Prime	\$ 71,249.98	\$ 168,615.72	\$ 2,503.00	\$ 14,292.22	\$ 256,660.92
WSP   Parsons Brinckerhoff Environmental	\$ 91,071.75	\$ 13,980.78			\$ 105,052.53
Applied Earthwork Environmental	\$ 42,606.71				\$ 42,606.71
ICF Jones & Stokes Environmental	\$ 26,322.54				\$ 26,322.54
Aguilar Consulting, Inc. (ACI) Channel Hydraulics	\$ 17,285.24				\$ 17,285.24
Group Delta Consultants Geotechnical and ISA	\$ 21,913.66	\$ 3,700.53			\$ 25,614.19
CASC Engineering and Consulting Water Quality	\$ 7,185.91	\$ 5,663.09	\$ 327.12	\$ 654.24	\$ 13,830.36
KOA Corporation Traffic	\$ 2,996.91	\$ 8,582.57	\$ 599.33	\$ 808.80	\$ 12,987.61
Overland, Pacific & Cutler Utilities	\$ 10,716.79	\$ 18,940.06			\$ 29,656.85
<b>TOTAL</b>	<b>\$ 291,349.49</b>	<b>\$ 219,482.75</b>	<b>\$ 3,429.45</b>	<b>\$ 15,755.26</b>	<b>\$ 530,016.95</b>

- Phase I **Preliminary Engineering & Environmental Documentation**
- Phase II **Plans, Specifications & Estimate (PS&E)**
- Phase III **Construction Bidding and Award Supports**
- Phase IV **Design Construction Supports**

**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Project Summary</b>	PHASE: <b>All Phases</b>
PROJECT: <b>Replacement of Railroad Avenue Bridge over Fornat Wash [Br. No. 56C0099, FPN BRLO-5956(228)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
James J. Lu	Senior Project Manager *	169	@	\$83.25	\$14,069.25
Quyett T. Nguyen	Senior Bridge Engineer	179	@	\$57.50	\$10,292.50
Steve Hosford	Senior Roadway Engineer	320	@	\$57.25	\$18,320.00
Lynn Odogiiv	Design Engineer III	342	@	\$44.60	\$15,253.20
Justin Nguyen	Design Engineer I	200	@	\$36.00	\$7,200.00
Nan Li	Senior CADD Technician	487	@	\$35.00	\$17,045.00
Hui-Min Huang	Project Controller	10	@	\$54.50	\$545.00

\* Key Personnel

TOTAL HOURS **1,707** TOTAL DIRECT LABOR **\$82,724.95**

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$3,792.94
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$45,716.05
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$96,389.58
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$22,862.35
<b>TOTAL MULTIPLIERS</b>			<b>\$168,760.92</b>

**OTHER DIRECT COSTS**

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

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1	LS	@	\$1,272.00	\$1,272.00
Mailing and Special Delivery	1	LS	@	\$116.55	\$116.55
Mileage and Travel	1	LS	@	\$618.50	\$618.50
Miscellaneous (Conference Calls and Supplemental Design Surveys)	1	LS	@	\$3,168.00	\$3,168.00

TOTAL ODC'S **\$5,175.05**

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff	\$34,574.76	\$64,200.47	\$6,277.30	\$105,052.53
Applied Earthwork	\$16,699.53	\$24,016.43	\$1,890.75	\$42,606.71
ICF Jones & Stokes	\$8,358.55	\$15,778.94	\$2,185.05	\$26,322.54
Aguilar Consulting, Inc. (ACI)	\$6,725.66	\$9,821.58	\$738.00	\$17,285.24
Group Delta Consultants	\$5,986.02	\$12,910.67	\$6,717.50	\$25,614.19
CASC Engineering and Consulting	\$4,529.25	\$9,063.51	\$237.60	\$13,830.36
KOA Corporation	\$4,323.00	\$8,254.11	\$410.50	\$12,987.61
Overland, Pacific & Cutler	\$8,731.50	\$17,247.35	\$3,678.00	\$29,656.85

TOTAL SUBCONSULTANT SERVICES **\$273,356.03**

TOTAL **\$530,016.95**

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

FPN: BRLO-5956(228)

Consultant: CNS Engineers, Inc.

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	2500	\$150.00
24"X36" COLOR BOARD	\$16.00	2	\$32.00
11"X17" BW	\$0.10	200	\$20.00
24"X36" BW	\$5.00	100	\$500.00
24"X36" COLOR	\$10.00	2	\$20.00
BINDING	\$5.00	2	\$10.00
FULL SIZE (MYLER)	\$15.00	36	\$540.00
			\$0.00
		<b>SUBTOTAL COST</b>	<b>\$1,272.00</b>
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Priority Mail	\$6.65	7	\$46.55
FedEx	\$35.00	2	\$70.00
			\$0.00
		<b>SUBTOTAL COST</b>	<b>\$116.55</b>
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	1100	\$588.50
Parking	\$5.00	6	\$30.00
		<b>TOTAL BUDGET</b>	<b>\$618.50</b>
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Conference Calls	\$0.06	2800	\$168.00
On-call Supplemental Design Surveys	\$3,000.00	1	\$3,000.00
			\$0.00
			\$0.00
		<b>SUBTOTAL COST</b>	<b>\$3,168.00</b>
		<b>TOTAL ODCs</b>	<b>\$5,175.05</b>

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.



**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Plans, Specifications &amp; Estimate (PS&amp;E)</b>	PHASE: <b>Phase II</b>
PROJECT: <b>Replacement of Railroad Avenue Bridge over Fornat Wash [Br. No. 56C0099, FPN BRLO-5956(228)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS		RATE	AMOUNT	
James J. Lu	Senior Project Manager	72	@	\$83.25	\$5,994.00	
Quyett T. Nguyen	Senior Bridge Engineer	120	@	\$57.50	\$6,900.00	
Steve Hosford	Senior Roadway Engineer	161	@	\$57.25	\$9,217.25	
Lynn Odgiiv	Design Engineer III	320	@	\$44.60	\$14,272.00	
Justin Nguyen	Design Engineer I	174	@	\$36.00	\$6,264.00	
Nan Li	Senior CADD Technician	360	@	\$35.00	\$12,600.00	
Hui-Min Huang	Project Controller	4	@	\$54.50	\$218.00	
		<b>TOTAL HOURS</b>		<b>1,211</b>	<b>TOTAL DIRECT LABOR</b>	<b>\$55,465.25</b>

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$2,543.08
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$30,651.60
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$64,627.08
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead )	\$15,328.70
<b>TOTAL MULTIPLIERS</b>			<b>\$113,150.47</b>

**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 (Conference Calls and Supplemental Design Surveys)		LS		
<b>TOTAL ODC'S</b>				

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff Applied Earthwork ICF Jones & Stokes Aguilar Consulting, Inc. (ACI)	\$4,893.76	\$9,087.02		\$13,980.78
Group Delta Consultants	\$1,172.24	\$2,528.29		\$3,700.53
CASC Engineering and Consulting	\$1,887.00	\$3,776.09		\$5,663.09
KOA Corporation	\$2,950.00	\$5,632.57		\$8,582.57
Overland, Pacific & Cutler	\$6,365.76	\$12,574.30		\$18,940.06
<b>TOTAL SUBCONSULTANT SERVICES</b>				<b>\$50,867.03</b>
<b>TOTAL</b>				<b>\$219,482.75</b>

FEE PROPOSAL WORKSHEET		
COMPANY: CNS Engineers, Inc.	SCOPE OF WORK: Construction Bidding and Award Supports	PHASE: Phase III
PROJECT: Replacement of Railroad Avenue Bridge over Fornat Wash [Br. No. 56C0099, FPN BRLO-5956(228)]		DATE: September 14, 2017

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS	RATE	AMOUNT	
James J. Lu	Senior Project Manager	3	@	\$83.25	\$249.75
Quyet T. Nguyen	Senior Bridge Engineer	4	@	\$57.50	\$230.00
Steve Hosford	Senior Roadway Engineer	4	@	\$57.25	\$229.00
Lynn Odgiv	Design Engineer III	1	@	\$44.60	\$44.60
Justin Nguyen	Design Engineer I			\$36.00	
Nan Li	Senior CADD Technician	2	@	\$35.00	\$70.00
Hui-Min Huang	Project Controller			\$54.50	

TOTAL HOURS 14 TOTAL DIRECT LABOR \$823.35

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$37.75
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$455.01
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$959.35
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$227.55

TOTAL MULTIPLIERS \$1,679.65

**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 (Conference Calls and Supplemental Design Surveys)		LS		

TOTAL ODC'S

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff				
Applied Earthwork				
ICF Jones & Stokes				
Aguilar Consulting, Inc. (ACI)				
Group Delta Consultants				
CASC Engineering and Consulting	\$109.00	\$218.12		\$327.12
KOA Corporation	\$206.00	\$393.33		\$599.33
Overland, Pacific & Cutler				

TOTAL SUBCONSULTANT SERVICES \$926.45

TOTAL \$3,429.45

**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Design Construction Supports</b>	PHASE: <b>Phase IV</b>
PROJECT: <b>Replacement of Railroad Avenue Bridge over Fornat Wash [Br. No. 56C0099, FPN BRLO-5956(228)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS	RATE	AMOUNT	
James J. Lu	Senior Project Manager	10	@ \$83.25	\$832.50	
Quyett T. Nguyen	Senior Bridge Engineer	20	@ \$57.50	\$1,150.00	
Steve Hosford	Senior Roadway Engineer	17	@ \$57.25	\$973.25	
Lynn Odgiiv	Design Engineer III	21	@ \$44.60	\$936.60	
Justin Nguyen	Design Engineer I		@ \$36.00		
Nan Li	Senior CADD Technician	20	@ \$35.00	\$700.00	
Hui-Min Huang	Project Controller	2	@ \$54.50	\$109.00	
		<b>TOTAL HOURS</b>	<b>90</b>	<b>TOTAL DIRECT LABOR</b>	<b>\$4,701.35</b>

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$215.56
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$2,598.09
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$5,477.93
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$1,299.29
<b>TOTAL MULTIPLIERS</b>			<b>\$9,590.87</b>

**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 (Conference Calls and Supplemental Design Surveys)		LS		
<b>TOTAL ODC'S</b>				

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff				
Applied Earthwork				
ICF Jones & Stokes				
Aguilar Consulting, Inc. (ACI)				
Group Delta Consultants				
CASC Engineering and Consulting	\$218.00	\$436.24		\$654.24
KOA Corporation	\$278.00	\$530.80		\$808.80
Overland, Pacific & Cutler				
<b>TOTAL SUBCONSULTANT SERVICES</b>				<b>\$1,463.04</b>

**TOTAL \$15,755.26**

**MANHOURLY WORKSHEET**

COMPANY: **CNS Engineers, Inc.**      SCOPE OF WORK: **Manhour Summary**      PHASE: **All Phases**

PROJECT: **Replacement of Railroad Avenue Bridge over Format Wash [Br. No. 56C0099, FPN BRLO-5956(228)]**      DATE: **September 14, 2017**

TASK	SENIOR PROJECT MANAGER	SENIOR BRIDGE ENGINEER	SENIOR ROADWAY ENGINEER	DESIGN ENGINEER I	DESIGN ENGINEER III	SENIOR CAD TECHNICIAN	PROJECT CONTROLLER	HOURS	(Top & Bottom) HOURS
	\$253.08	\$174.80	\$174.04	\$135.59	\$109.44	\$106.40	\$165.68		

PHASE TOTALS	169	179	320	342	200	487	10	1,707	1,707
PHASE I	84	35	138		26	105	4	392	392
PHASE II	72	120	161	320	174	360	4	1,211	1,211
PHASE III	3	4	4	1		2		14	14
PHASE IV	10	20	17	21		20	2	90	90

TASK	HOURS

PHASE TOTALS	
PHASE I	
PHASE II	
PHASE III	
PHASE IV	







**MANHOURLY WORKSHEET**

COMPANY: CNS Engineers, Inc.

PROJECT: Replacement of Railroad Avenue Bridge over Format Wash [Br. No. 56C0099, FPN BRLO-59566(228)]

SCOPE OF WORK: Plans, Specifications & Estimate (PS&E)

PHASE: Phase II

DATE: September 14, 2017

TASK

TASK	SENIOR PROJECT MANAGER	SENIOR BRIDGE ENGINEER	SENIOR POLYMAX ENGINEER	DESIGN ENGINEER III	DESIGN ENGINEER I	SENIOR CAD/ TECHNICIAN	PROJECT CONTROLLER	HOURS	COST
	\$174.80	\$174.04	\$135.59	\$109.44	\$106.40	\$165.68			

**Total Manhours** 72 120 161 320 174 360 4 4 1,211

TASK	72	120	161	320	174	360	4	4	50	\$	10,566
1.1 Project Management	24		22					4			
1.2 Project Team Meetings	12	4	16						32	\$	6,521
1.3 Quality Control and Quality Assurance (QC/QA)	8		8						16	\$	3,417
5.1 Foundation Design Report											
5.2 Storm Water Pollution Prevention Plan (SWPPP)			12						12	\$	2,088
5.3 Utility Relocation Coordination	2		35			56			93	\$	12,556
5.4 65% Roadway Plans											
5.5 65% Signing, Striping and Detour Plans	2		26			18			46	\$	6,946
5.6 95% Civil Roadway PS&E	4	22		88	26				140	\$	19,556
5.7 Bridge Type Selection	4	52		168	188				412	\$	52,884
5.8 65% Unchecked Structure Plans					170				170	\$	18,505
5.9 Bridge Design Independent Check	6	30		44		22			102	\$	15,069
5.10 95% Structure PS&E	6	12	20	20	4	42			104	\$	14,715
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 ACOE Section 404 Nationwide Permit											
6.2 RWQCB Section 401 Water Quality Certification											
6.3 CDFW Section 1602 Streambed Alteration Agreement											
6.4 Caltrans Encroachment Permit (Step-2)	4		22			8			34	\$	5,692





# Engineering and Environmental Services

## Replacement of Railroad Avenue Bridge over East Channel Stubbe Wash [Br. No. 56C0101, FPN BRLO-5956(229)] Fee Proposal Summary

September 14, 2017

COMPANIES	PHASE I	PHASE II	PHASE III	PHASE IV	TOTAL
CNS Engineers, Inc. Prime	\$ 71,249.98	\$ 168,615.72	\$ 2,503.00	\$ 14,292.22	\$ 256,660.92
WSP   Parsons Brinckerhoff Environmental	\$ 117,783.58	\$ 13,980.78			\$ 131,764.36
Applied Earthwork Environmental	\$ 42,606.71				\$ 42,606.71
ICF Jones & Stokes Environmental	\$ 26,322.54				\$ 26,322.54
Aguilar Consulting, Inc. (ACI) Channel Hydraulics	\$ 18,761.14				\$ 18,761.14
Group Delta Consultants Geotechnical and ISA	\$ 21,913.66	\$ 3,700.53			\$ 25,614.19
CASC Engineering and Consulting Water Quality	\$ 7,185.91	\$ 5,663.09	\$ 327.12	\$ 654.24	\$ 13,830.36
KOA Corporation Traffic	\$ 2,996.91	\$ 8,582.57	\$ 599.33	\$ 808.80	\$ 12,987.61
Overland, Pacific & Cutler Utilities	\$ 10,716.79	\$ 18,940.06			\$ 29,656.85
<b>TOTAL</b>	<b>\$ 319,537.22</b>	<b>\$ 219,482.75</b>	<b>\$ 3,429.45</b>	<b>\$ 15,755.26</b>	<b>\$ 558,204.68</b>

- Phase I **Preliminary Engineering & Environmental Documentation**
- Phase II **Plans, Specifications & Estimate (PS&E)**
- Phase III **Construction Bidding and Award Supports**
- Phase IV **Design Construction Supports**

**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Project Summary</b>	PHASE: <b>All Phases</b>
PROJECT: <b>Replacement of Railroad Avenue Bridge over East Channel Stubbe Wash [Br. No. 56C0101, FPN BRLO-5956(229)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
James J. Lu	Senior Project Manager *	169	@	\$83.25	\$14,069.25
Quyett T. Nguyen	Senior Bridge Engineer	179	@	\$57.50	\$10,292.50
Steve Hosford	Senior Roadway Engineer	320	@	\$57.25	\$18,320.00
Lynn Odgivi	Design Engineer III	342	@	\$44.60	\$15,253.20
Justin Nguyen	Design Engineer I	200	@	\$36.00	\$7,200.00
Nan Li	Senior CADD Technician	487	@	\$35.00	\$17,045.00
Hui-Min Huang	Project Controller	10	@	\$54.50	\$545.00

\* Key Personnel

TOTAL HOURS **1,707** TOTAL DIRECT LABOR **\$82,724.95**

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$3,792.94
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$45,716.05
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$96,389.58
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$22,862.35
<b>TOTAL MULTIPLIERS</b>			<b>\$168,760.92</b>

**OTHER DIRECT COSTS**

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

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction	1	LS	@ \$1,272.00	\$1,272.00
Mailing and Special Delivery	1	LS	@ \$116.55	\$116.55
Mileage and Travel	1	LS	@ \$618.50	\$618.50
Miscellaneous (Conference Calls and Supplemental Design Surveys)	1	LS	@ \$3,168.00	\$3,168.00

TOTAL ODC'S **\$5,175.05**

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC'S	TOTAL
WSP   Parsons Brinckerhoff	\$43,924.83	\$81,562.23	\$6,277.30	\$131,764.36
Applied Earthwork	\$16,699.53	\$24,016.43	\$1,890.75	\$42,606.71
ICF Jones & Stokes	\$8,358.55	\$15,778.94	\$2,185.05	\$26,322.54
Aguilar Consulting, Inc. (ACI)	\$7,325.54	\$10,697.60	\$738.00	\$18,761.14
Group Delta Consultants	\$5,986.02	\$12,910.67	\$6,717.50	\$25,614.19
CASC Engineering and Consulting	\$4,529.25	\$9,063.51	\$237.60	\$13,830.36
KOA Corporation	\$4,323.00	\$8,254.11	\$410.50	\$12,987.61
Overland, Pacific & Cutler	\$8,731.50	\$17,247.35	\$3,678.00	\$29,656.85

TOTAL SUBCONSULTANT SERVICES **\$301,543.76**

TOTAL **\$558,204.68**

**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: CNS Engineers, Inc.

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	2500	\$150.00
24"X36" COLOR BOARD	\$16.00	2	\$32.00
11"X17" B/W	\$0.10	200	\$20.00
24"X36" B/W	\$5.00	100	\$500.00
24"X36" COLOR	\$10.00	2	\$20.00
BINDING	\$5.00	2	\$10.00
FULL SIZE (MYLER)	\$15.00	36	\$540.00
			\$0.00
<b>SUBTOTAL COST</b>			<b>\$1,272.00</b>
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Priority Mail	\$6.65	7	\$46.55
FedEx	\$35.00	2	\$70.00
			\$0.00
<b>SUBTOTAL COST</b>			<b>\$116.55</b>
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	1100	\$588.50
Parking	\$5.00	6	\$30.00
<b>TOTAL BUDGET</b>			<b>\$618.50</b>
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Conference Calls	\$0.06	2800	\$168.00
On-call Supplemental Design Surveys	\$3,000.00	1	\$3,000.00
			\$0.00
			\$0.00
<b>SUBTOTAL COST</b>			<b>\$3,168.00</b>
<b>TOTAL ODCs</b>			<b>\$5,175.05</b>

**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.



**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Preliminary Engineering &amp; Environmental Documentation</b>	PHASE: <b>Phase I</b>
PROJECT: <b>Replacement of Railroad Avenue Bridge over East Channel Stubbe Wash [Br. No. 56C0101, FPN BRLO-5956(229)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
James J. Lu	Senior Project Manager	84	@	\$83.25	\$6,993.00
Quyet T. Nguyen	Senior Bridge Engineer	35	@	\$57.50	\$2,012.50
Steve Hosford	Senior Roadway Engineer	138	@	\$57.25	\$7,900.50
Lynn Odgivi	Design Engineer III			\$44.60	
Justin Nguyen	Design Engineer I	26	@	\$36.00	\$936.00
Nan Li	Senior CADD Technician	105	@	\$35.00	\$3,675.00
Hui-Min Huang	Project Controller	4	@	\$54.50	\$218.00
		<b>TOTAL HOURS</b>	<b>392</b>	<b>TOTAL DIRECT LABOR</b>	<b>\$21,735.00</b>

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$996.55
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$12,011.35
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$25,325.22
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$6,006.81
<b>TOTAL MULTIPLIERS</b>			<b>\$44,339.93</b>

**OTHER DIRECT COSTS**

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

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1	LS	@	\$1,272.00	\$1,272.00
Mailing and Special Delivery	1	LS	@	\$116.550	\$116.55
Mileage and Travel	1	LS	@	\$618.50	\$618.50
Miscellaneous (Conference Calls and Supplemental Design Surveys)	1	LS	@	\$3,168.00	\$3,168.00
<b>TOTAL ODC'S</b>					<b>\$5,175.05</b>

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff	\$39,031.07	\$72,475.21	\$6,277.30	\$117,783.58
Applied Earthwork	\$16,699.53	\$24,016.43	\$1,890.75	\$42,606.71
ICF Jones & Stokes	\$8,358.55	\$15,778.94	\$2,185.05	\$26,322.54
Aguilar Consulting, Inc. (ACI)	\$7,325.54	\$10,697.60	\$738.00	\$18,761.14
Group Delta Consultants	\$4,813.78	\$10,382.38	\$6,717.50	\$21,913.66
CASC Engineering and Consulting	\$2,315.25	\$4,633.06	\$237.60	\$7,185.91
KOA Corporation	\$889.00	\$1,697.41	\$410.50	\$2,996.91
Overland, Pacific & Cutler	\$2,365.74	\$4,673.05	\$3,678.00	\$10,716.79
<b>TOTAL SUBCONSULTANT SERVICES</b>				<b>\$248,287.24</b>
<b>TOTAL</b>				<b>\$319,537.22</b>

**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Plans, Specifications &amp; Estimate (PS&amp;E)</b>	PHASE: <b>Phase II</b>
PROJECT: <b>Replacement of Railroad Avenue Bridge over East Channel Stubbe Wash [Br. No. 56C0101, FPN BRLO-5956(229)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
James J. Lu	Senior Project Manager	72	@ \$83.25	\$5,994.00
Quyet T. Nguyen	Senior Bridge Engineer	120	@ \$57.50	\$6,900.00
Steve Hosford	Senior Roadway Engineer	161	@ \$57.25	\$9,217.25
Lynn Odgiv	Design Engineer III	320	@ \$44.60	\$14,272.00
Justin Nguyen	Design Engineer I	174	@ \$36.00	\$6,264.00
Nan Li	Senior CADD Technician	360	@ \$35.00	\$12,600.00
Hui-Min Huang	Project Controller	4	@ \$54.50	\$218.00

TOTAL HOURS **1,211** TOTAL DIRECT LABOR **\$55,465.25**

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$2,543.08
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$30,651.60
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$64,627.08
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$15,328.70
TOTAL MULTIPLIERS			<b>\$113,150.47</b>

**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 (Conference Calls and Supplemental Design Surveys)		LS		

TOTAL ODC'S

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff	\$4,893.76	\$9,087.02		\$13,980.78
Applied Earthwork				
ICF Jones & Stokes				
Aguilar Consulting, Inc. (ACI)				
Group Delta Consultants	\$1,172.24	\$2,528.29		\$3,700.53
CASC Engineering and Consulting	\$1,887.00	\$3,776.09		\$5,663.09
KOA Corporation	\$2,950.00	\$5,632.57		\$8,582.57
Overland, Pacific & Cutler	\$6,365.76	\$12,574.30		\$18,940.06

TOTAL SUBCONSULTANT SERVICES **\$50,867.03**

TOTAL **\$219,482.75**

**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Construction Bidding and Award Supports</b>	PHASE: <b>Phase III</b>
PROJECT: <b>Replacement of Railroad Avenue Bridge over East Channel Stubbe Wash [Br. No. 56C0101, FPN BRLO-5956(229)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS	RATE	AMOUNT	
James J. Lu	Senior Project Manager	3	@ \$83.25	\$249.75	
Quyet T. Nguyen	Senior Bridge Engineer	4	@ \$57.50	\$230.00	
Steve Hosford	Senior Roadway Engineer	4	@ \$57.25	\$229.00	
Lynn Odgiiv	Design Engineer III	1	@ \$44.60	\$44.60	
Justin Nguyen	Design Engineer I		\$36.00		
Nan Li	Senior CADD Technician	2	@ \$35.00	\$70.00	
Hui-Min Huang	Project Controller		\$54.50		
		<b>TOTAL HOURS</b>	<b>14</b>	<b>TOTAL DIRECT LABOR</b>	<b>\$823.35</b>

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$37.75
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$455.01
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$959.35
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$227.55
<b>TOTAL MULTIPLIERS</b>			<b>\$1,679.65</b>

**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 (Conference Calls and Supplemental Design Surveys)		LS		
<b>TOTAL ODC'S</b>				

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff				
Applied Earthwork				
ICF Jones & Stokes				
Aguilar Consulting, Inc. (ACI)				
Group Delta Consultants				
CASC Engineering and Consulting	\$109.00	\$218.12		\$327.12
KOA Corporation	\$206.00	\$393.33		\$599.33
Overland, Pacific & Cutler				
<b>TOTAL SUBCONSULTANT SERVICES</b>				<b>\$926.45</b>

**TOTAL \$3,429.45**

**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Design Construction Supports</b>	PHASE: <b>Phase IV</b>
PROJECT: <b>Replacement of Railroad Avenue Bridge over East Channel Stubbe Wash [Br. No. 56C0101, FPN BRLO-5956(229)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
James J. Lu	Senior Project Manager	10	@	\$83.25	\$832.50
Quyett T. Nguyen	Senior Bridge Engineer	20	@	\$57.50	\$1,150.00
Steve Hosford	Senior Roadway Engineer	17	@	\$57.25	\$973.25
Lynn Odgiv	Design Engineer III	21	@	\$44.60	\$936.60
Justin Nguyen	Design Engineer I			\$36.00	
Nan Li	Senior CADD Technician	20	@	\$35.00	\$700.00
Hui-Min Huang	Project Controller	2	@	\$54.50	\$109.00
		<b>TOTAL HOURS</b>			<b>90</b>
				<b>TOTAL DIRECT LABOR</b>	<b>\$4,701.35</b>

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$215.56
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$2,598.09
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$5,477.93
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$1,299.29
			<b>TOTAL MULTIPLIERS</b>
			<b>\$9,590.87</b>

**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 (Conference Calls and Supplemental Design Surveys)		LS		
				<b>TOTAL ODC'S</b>

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff				
Applied Earthwork				
ICF Jones & Stokes				
Aguilar Consulting, Inc. (ACI)				
Group Delta Consultants				
CASC Engineering and Consulting	\$218.00	\$436.24		\$654.24
KOA Corporation	\$278.00	\$530.80		\$808.80
Overland, Pacific & Cutler				
				<b>TOTAL SUBCONSULTANT SERVICES</b>
				<b>\$1,463.04</b>

**TOTAL \$15,755.26**

**MANHOUR WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Manhour Summary</b>	PHASE: <b>All Phases</b>
PROJECT: <b>Replacement of Railroad Avenue Bridge over East Channel Stubbe Wash [Br. No. 56C0101, FPN BRLO-5956(229)]</b>		DATE: <b>September 14, 2017</b>

TASK	SENIOR PROJECT MANAGER	SENIOR BRIDGE ENGINEER	SENIOR ROADWAY ENGINEER	DESIGN ENGINEER III	DESIGN ENGINEER I	SENIOR CAD/TECHNICIAN	PROJECT CONTROLLER	HOURS	(Top & Bottom) HOURS
	169	179	320	342	200	487	10	1,707	1,707
	\$253.08	\$174.80	\$174.04	\$135.59	\$109.44	\$106.40	\$165.68		
PHASE I	84	35	138	26	105	4	4	392	392
PHASE II	72	120	161	320	174	360	4	1,211	1,211
PHASE III	3	4	4	1	2			14	14
PHASE IV	10	20	17	21	20	2		90	90

TASK	HOURS
PHASE TOTALS	1,707
PHASE I	392
PHASE II	1,211
PHASE III	14
PHASE IV	90

TASK	HOURS
PHASE TOTALS	
PHASE I	
PHASE II	
PHASE III	
PHASE IV	

**MANHOOR WORKSHEET**

COMPANY: CNS Engineers, Inc.

PROJECT: Replacement of Railroad Avenue Bridge over East Channel Stubbe Wash [Br. No. 56C0101, FPN BRL0-5956(229)]

SCOPE OF WORK: Preliminary Engineering & Environmental Documentation

PHASE: Phase I

DATE: September 14, 2017

TASK

SENIOR PROJECT MANAGER	SENIOR BRIDGE ENGINEER	SENIOR ENGINEER	DESIGN ENGINEER III	DESIGN ENGINEER I	SENIOR CAD/ TECHNICIAN	PROJECT CONTROLLER
\$253.08	\$174.80	\$174.04	\$136.59	\$109.44	\$106.40	\$165.68

HOURS COST

TASK	84	35	138	26	105	4	392
<b>Total Manhours</b>	<b>84</b>	<b>35</b>	<b>138</b>	<b>26</b>	<b>105</b>	<b>4</b>	<b>392</b>
1.1 Project Management	36		26			4	66 \$ 14,299
1.2 Project Team Meetings	20	4	22				46 \$ 9,590
1.3 Quality Control and Quality Assurance (QC/QA)	7		12				19 \$ 3,860
2.0 Research and Data Gathering							
2.1 Collect and Review Existing Information		1	2		2		5 \$ 736
2.2 Conduct Field Review	4	4	4				12 \$ 2,408
3.0 Preliminary Engineering							
3.1 Traffic Study (Technical Memorandum/Traffic Summary)							
3.2 Preliminary Utility Mapping			4		4		8 \$ 1,122
3.3 Permits			2				2 \$ 348
3.4 Surveying and Right-of-Way Mapping (by County)							
3.5 Preliminary Geotechnical Studies							
3.6 Right-of-Way Requirements Map			6		9		15 \$ 2,002
3.7 Geometric Approval Drawings	2		38		52		92 \$ 12,663
3.8 Structure Advance Planning Study	2	22		18	26		68 \$ 9,088
3.9 Hydrologic, Hydraulic and Scour Studies							
3.10 Advisory and Mandatory Fact Sheets			4				4 \$ 696
3.11 Engineer's Estimate	1	4	4	8	8		25 \$ 3,375
4.0 Environmental Clearance & Documentation							
4.1 Project Initiation			4		4		12 \$ 2,134
4.2 Preliminary Environmental Study (PES)							
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							
NESMI							
Biological Resource Agency Coordination							
Biological Assessment/Section 7 Consultation (Step-2)							
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)							

MANHOURLY WORKSHEET		SCOPE OF WORK:	PHASE:						
COMPANY:		Preliminary Engineering & Environmental Documentation	Phase I						
PROJECT:		Replacement of Railroad Avenue Bridge over East Channel Stubbe Wash [Br. No. 56C0101, FPN BRLO-5956(229)]	DATE: September 14, 2017						
TASK	SENIOR PROJECT MANAGER	SENIOR BRIDGE ENGINEER	SENIOR POLYMER ENGINEER	DESIGN ENGINEER III	DESIGN ENGINEER I	SENIOR CAD/3D TECHNICIAN	PROJECT CONTROLLER	HOURS	COST
4.3.8 Culture Resources Study (APE/ASR/HRER/HPSR)									
APE									
ASR									
HRER									
HPSR									
4.3.9A Finding of Effect (FoE) (Step-2)									
4.3.9B Section 106 Memorandum of Agreement (MOA) (Step-2)									
4.3.10 CEQA Notice of Exemption (NOE)									
4.5 CEQA/NEPA Initial Study/Environmental Assessment (IS/EA) (Step-2)									
4.5.1 Administrative Draft IS/EA	8								
4.5.2 Draft IS/EA for Public Review									
4.5.3 Public Review									
4.5.4 Draft Mitigated Negative Declaration/Finding of No Significant Impact (MND/FONSI)									
4.5.5 Final MND/FONSI									
								18	\$ 3,765

**MANHOUR WORKSHEET**

COMPANY:  
CNS Engineers, Inc.

SCOPE OF WORK:  
Plans, Specifications & Estimate (PS&E)

PHASE:  
Phase II

PROJECT:

Replacement of Railroad Avenue Bridge over East Channel Stubbe Wash [Br. No. 56C0101, FPN BRLO-5956(29)]

DATE:  
September 14, 2017

TASK	SENIOR PROJECT MANAGER	SENIOR BRIDGE ENGINEER	SENIOR ENGINEER	SENIOR ROADWAY ENGINEER	DESIGN ENGINEER III	DESIGN ENGINEER I	SENIOR CAD/ TECHNICIAN	PROJECT CONTROLLER	HOURS	COST
	\$255.08	\$174.80	\$174.04	\$135.59	\$109.44	\$106.40	\$165.68			

**Total Manhours**

**72 120 161 320 174 360 4 1,211**

1.1 Project Management	24	22					4		50	\$ 10,566
1.2 Project Team Meetings	12	4	16						32	\$ 6,521
1.3 Quality Control and Quality Assurance (QC/QA)	8	8							16	\$ 3,417
5.1 Foundation Design Report										
5.2 Storm Water Pollution Prevention Plan (SWPPP)										
5.3 Utility Relocation Coordination		12							12	\$ 2,088
5.4 65% Roadway Plans	2	35				56			93	\$ 12,556
5.5 65% Signing, Striping and Detour Plans										
5.6 95% Civil Roadway PS&E	2	26				18			46	\$ 6,946
5.7 Bridge Type Selection	4	22	88			26			140	\$ 19,556
5.8 65% Unchecked Structure Plans	4	52	168			188			412	\$ 52,884
5.9 Bridge Design Independent Check				170					170	\$ 18,605
5.10 95% Structure PS&E	6	30	44			22			102	\$ 15,069
5.11 Final 100% Design PS&E and Contract Bid Documents	6	12	20	4		42			104	\$ 14,715
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 ACOE Section 404 Nationwide Permit										
6.2 RWQCB Section 401 Water Quality Certification										
6.3 CDFW Section 1602 Streambed Alteration Agreement										
6.4 Caltrans Encroachment Permit (Step-2)	4	22	8						34	\$ 5,692







# Engineering and Environmental Services

**Replacement of Chuckwalla Valley Road Bridge over Aztec Ditch [Br. No. 56C0102, FPN BRLO-5956(239)] Fee Proposal Summary**

September 14, 2017

COMPANIES	PHASE I	PHASE II	PHASE III	PHASE IV	TOTAL
CNS Engineers, Inc. Prime	\$ 63,453.00	\$ 150,680.94	\$ 2,249.92	\$ 14,039.14	\$ 230,423.00
WSP   Parsons Brinckerhoff Environmental	\$ 92,058.76	\$ 13,980.78			\$ 106,039.54
Applied Earthwork Environmental	\$ 22,106.67				\$ 22,106.67
ICF Jones & Stokes Environmental	\$ 35,007.77				\$ 35,007.77
Aguilar Consulting, Inc. (ACI) Channel Hydraulics	\$ 22,706.45				\$ 22,706.45
Group Delta Consultants Geotechnical and ISA	\$ 21,913.66	\$ 3,700.53			\$ 25,614.19
CASC Engineering and Consulting Water Quality	\$ 6,858.79	\$ 5,335.97	\$ 327.12	\$ 654.24	\$ 13,176.12
KOA Corporation Traffic	\$ 2,327.76	\$ 8,117.08	\$ 407.31	\$ 808.80	\$ 11,660.95
Overland, Pacific & Cutler Utilities	\$ 6,870.00	\$ 107.74			\$ 6,977.74
<b>TOTAL</b>	<b>\$ 273,302.86</b>	<b>\$ 181,923.04</b>	<b>\$ 2,984.35</b>	<b>\$ 15,502.18</b>	<b>\$ 473,712.43</b>

- Phase I **Preliminary Engineering & Environmental Documentation**
- Phase II **Plans, Specifications & Estimate (PS&E)**
- Phase III **Construction Bidding and Award Supports**
- Phase IV **Design Construction Supports**

**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Project Summary</b>	PHASE: <b>All Phases</b>
PROJECT: <b>Replacement of Chuckwalla Valley Road Bridge over Aztec Ditch [Br. No. 56C0102, FPN BRLO-5956(239)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
James J. Lu	Senior Project Manager *	151	@ \$83.25	\$12,570.75
Quyett T. Nguyen	Senior Bridge Engineer	171	@ \$57.50	\$9,832.50
Steve Hosford	Senior Roadway Engineer	260	@ \$57.25	\$14,885.00
Lynn Odgiiv	Design Engineer III	314	@ \$44.60	\$14,004.40
Justin Nguyen	Design Engineer I	182	@ \$36.00	\$6,552.00
Nan Li	Senior CADD Technician	444	@ \$35.00	\$15,540.00
Hui-Min Huang	Project Controller	10	@ \$54.50	\$545.00

\* Key Personnel

TOTAL HOURS **1,532** TOTAL DIRECT LABOR **\$73,929.65**

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$3,389.67
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$40,855.53
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$86,141.46
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$20,431.63
<b>TOTAL MULTIPLIERS</b>			<b>\$150,818.30</b>

**OTHER DIRECT COSTS**

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

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction	1	LS	@ \$1,272.00	\$1,272.00
Mailing and Special Delivery	1	LS	@ \$116.55	\$116.55
Mileage and Travel	1	LS	@ \$618.50	\$618.50
Miscellaneous (Conference Calls and Supplemental Design Surveys)	1	LS	@ \$3,668.00	\$3,668.00

TOTAL ODC'S **\$5,675.05**

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff	\$34,920.25	\$64,841.99	\$6,277.30	\$106,039.54
Applied Earthwork	\$8,291.50	\$11,924.42	\$1,890.75	\$22,106.67
ICF Jones & Stokes	\$11,400.11	\$21,422.61	\$2,185.05	\$35,007.77
Aguilar Consulting, Inc. (ACI)	\$8,929.12	\$13,039.33	\$738.00	\$22,706.45
Group Delta Consultants	\$5,986.02	\$12,910.67	\$6,717.50	\$25,614.19
CASC Engineering and Consulting	\$4,311.25	\$8,627.27	\$237.60	\$13,176.12
KOA Corporation	\$3,867.00	\$7,383.45	\$410.50	\$11,660.95
Overland, Pacific & Cutler	\$2,345.22	\$4,632.52		\$6,977.74

TOTAL SUBCONSULTANT SERVICES **\$243,289.43**

TOTAL **\$473,712.43**

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

FPN: BRLO-5956(239)

Consultant: CNS Engineers, Inc.

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	2500	\$150.00
24"X36" COLOR BOARD	\$16.00	2	\$32.00
11"X17" B/W	\$0.10	200	\$20.00
24"X36" B/W	\$5.00	100	\$500.00
24"X36" COLOR	\$10.00	2	\$20.00
BINDING	\$5.00	2	\$10.00
FULL SIZE (MYLER)	\$15.00	36	\$540.00
			\$0.00
<b>SUBTOTAL COST</b>			<b>\$1,272.00</b>
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Priority Mail	\$6.65	7	\$46.55
FedEx	\$35.00	2	\$70.00
			\$0.00
<b>SUBTOTAL COST</b>			<b>\$116.55</b>
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	1100	\$588.50
Parking	\$5.00	6	\$30.00
<b>TOTAL BUDGET</b>			<b>\$618.50</b>
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Conference Calls	\$0.06	2800	\$168.00
On-call Supplemental Design Surveys	\$3,500.00	1	\$3,500.00
			\$0.00
			\$0.00
<b>SUBTOTAL COST</b>			<b>\$3,668.00</b>
<b>TOTAL ODCs</b>			<b>\$5,675.05</b>

**NOTES:**

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

**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Preliminary Engineering &amp; Environmental Documentation</b>	PHASE: <b>Phase I</b>
PROJECT: <b>Replacement of Chuckwalla Valley Road Bridge over Aztec Ditch [Br. No. 56C0102, FPN BRLO-5956(239)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS		RATE	AMOUNT	
James J. Lu	Senior Project Manager	72	@	\$83.25	\$5,994.00	
Quyett T. Nguyen	Senior Bridge Engineer	31	@	\$57.50	\$1,782.50	
Steve Hosford	Senior Roadway Engineer	121	@	\$57.25	\$6,927.25	
Lynn Odgiv	Design Engineer III			\$44.60		
Justin Nguyen	Design Engineer I	24	@	\$36.00	\$864.00	
Nan Li	Senior CADD Technician	92	@	\$35.00	\$3,220.00	
Hui-Min Huang	Project Controller	4	@	\$54.50	\$218.00	
		<b>TOTAL HOURS</b>		<b>344</b>	<b>TOTAL DIRECT LABOR</b>	<b>\$19,005.75</b>

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$871.41	
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$10,503.09	
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$22,145.15	
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$5,252.54	
			<b>TOTAL MULTIPLIERS</b>	<b>\$38,772.20</b>

**OTHER DIRECT COSTS**

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

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT	
Reproduction	1	LS	@ \$1,272.00	\$1,272.00	
Mailing and Special Delivery	1	LS	@ \$116.550	\$116.55	
Mileage and Travel	1	LS	@ \$618.50	\$618.50	
Miscellaneous (Conference Calls and Supplemental Design Surveys)	1	LS	@ \$3,668.00	\$3,668.00	
				<b>TOTAL ODC'S</b>	<b>\$5,675.05</b>

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL	
WSP   Parsons Brinckerhoff	\$30,026.49	\$55,754.97	\$6,277.30	\$92,058.76	
Applied Earthwork	\$8,291.50	\$11,924.42	\$1,890.75	\$22,106.67	
ICF Jones & Stokes	\$11,400.11	\$21,422.61	\$2,185.05	\$35,007.77	
Aguilar Consulting, Inc. (ACI)	\$8,929.12	\$13,039.33	\$738.00	\$22,706.45	
Group Delta Consultants	\$4,813.78	\$10,382.38	\$6,717.50	\$21,913.66	
CASC Engineering and Consulting	\$2,206.25	\$4,414.94	\$237.60	\$6,858.79	
KOA Corporation	\$659.00	\$1,258.26	\$410.50	\$2,327.76	
Overland, Pacific & Cutler	\$2,309.01	\$4,560.99		\$6,870.00	
				<b>TOTAL SUBCONSULTANT SERVICES</b>	<b>\$209,849.86</b>

**TOTAL** **\$273,302.86**

**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Plans, Specifications &amp; Estimate (PS&amp;E)</b>	PHASE: <b>Phase II</b>
PROJECT: <b>Replacement of Chuckwalla Valley Road Bridge over Aztec Ditch [Br. No. 56C0102, FPN BRLO-5956(239)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS		RATE	AMOUNT	
James J. Lu	Senior Project Manager	68	@	\$83.25	\$5,661.00	
Quy T. Nguyen	Senior Bridge Engineer	116	@	\$57.50	\$6,670.00	
Steve Hosford	Senior Roadway Engineer	118	@	\$57.25	\$6,755.50	
Lynn Odgiov	Design Engineer III	292	@	\$44.60	\$13,023.20	
Justin Nguyen	Design Engineer I	158	@	\$36.00	\$5,688.00	
Nan Li	Senior CADD Technician	330	@	\$35.00	\$11,550.00	
Hui-Min Huang	Project Controller	4	@	\$54.50	\$218.00	
		<b>TOTAL HOURS</b>		<b>1,086</b>	<b>TOTAL DIRECT LABOR</b>	<b>\$49,565.70</b>

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$2,272.59
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$27,391.35
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$57,753.04
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$13,698.27
<b>TOTAL MULTIPLIERS</b>			<b>\$101,115.24</b>

**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 (Conference Calls and Supplemental Design Surveys)		LS		
<b>TOTAL ODC'S</b>				

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff Applied Earthwork ICF Jones & Stokes Aguilar Consulting, Inc. (ACI)	\$4,893.76	\$9,087.02		\$13,980.78
Group Delta Consultants CASC Engineering and Consulting KOA Corporation Overland, Pacific & Cutler	\$1,172.24 \$1,778.00 \$2,790.00 \$36.21	\$2,528.29 \$3,557.97 \$5,327.08 \$71.53		\$3,700.53 \$5,335.97 \$8,117.08 \$107.74
<b>TOTAL SUBCONSULTANT SERVICES</b>				<b>\$31,242.10</b>
<b>TOTAL</b>				<b>\$181,923.04</b>

**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Construction Bidding and Award Supports</b>	PHASE: <b>Phase III</b>
PROJECT: <b>Replacement of Chuckwalla Valley Road Bridge over Aztec Ditch [Br. No. 56C0102, FPN BRLO-5956(239)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS	RATE	AMOUNT	
James J. Lu	Senior Project Manager	2	@ \$83.25	\$166.50	
Quyett T. Nguyen	Senior Bridge Engineer	4	@ \$57.50	\$230.00	
Steve Hosford	Senior Roadway Engineer	4	@ \$57.25	\$229.00	
Lynn Odgiiv	Design Engineer III	1	@ \$44.60	\$44.60	
Justin Nguyen	Design Engineer I		\$36.00		
Nan Li	Senior CADD Technician	2	@ \$35.00	\$70.00	
Hui-Min Huang	Project Controller		\$54.50		
		<b>TOTAL HOURS</b>	<b>13</b>	<b>TOTAL DIRECT LABOR</b>	<b>\$740.10</b>

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$33.93
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$409.00
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$862.35
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$204.54
<b>TOTAL MULTIPLIERS</b>			<b>\$1,509.82</b>

**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 (Conference Calls and Supplemental Design Surveys)		LS		
<b>TOTAL ODC'S</b>				

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff				
Applied Earthwork				
ICF Jones & Stokes				
Aguilar Consulting, Inc. (ACI)				
Group Delta Consultants				
CASC Engineering and Consulting	\$109.00	\$218.12		\$327.12
KOA Corporation	\$140.00	\$267.31		\$407.31
Overland, Pacific & Cutler				
<b>TOTAL SUBCONSULTANT SERVICES</b>				<b>\$734.43</b>

**TOTAL** \$2,984.35



**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Design Construction Supports</b>	PHASE: <b>Phase IV</b>
PROJECT: <b>Replacement of Chuckwalla Valley Road Bridge over Aztec Ditch [Br. No. 56C0102, FPN BRLO-5956(239)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
James J. Lu	Senior Project Manager	9	@	\$83.25	\$749.25
Quy T. Nguyen	Senior Bridge Engineer	20	@	\$57.50	\$1,150.00
Steve Hosford	Senior Roadway Engineer	17	@	\$57.25	\$973.25
Lynn Odgiiv	Design Engineer III	21	@	\$44.60	\$936.60
Justin Nguyen	Design Engineer I			\$36.00	
Nan Li	Senior CADD Technician	20	@	\$35.00	\$700.00
Hui-Min Huang	Project Controller	2	@	\$54.50	\$109.00
		<b>TOTAL HOURS</b>			<b>\$4,618.10</b>
				<b>TOTAL DIRECT LABOR</b>	<b>\$4,618.10</b>

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$211.74
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$2,552.09
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$5,380.92
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$1,276.29
			<b>TOTAL MULTIPLIERS</b>
			<b>\$9,421.04</b>

**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 (Conference Calls and Supplemental Design Surveys)		LS		
				<b>TOTAL ODC'S</b>

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff				
Applied Earthwork				
ICF Jones & Stokes				
Aguilar Consulting, Inc. (ACI)				
Group Delta Consultants				
CASC Engineering and Consulting	\$218.00	\$436.24		\$654.24
KOA Corporation	\$278.00	\$530.80		\$808.80
Overland, Pacific & Cutler				
				<b>TOTAL SUBCONSULTANT SERVICES</b>
				<b>\$1,463.04</b>

**TOTAL \$15,502.18**

**MANHOURLY WORKSHEET**

COMPANY: **CNS Engineers, Inc.**      SCOPE OF WORK: **Manhour Summary**      PHASE: **All Phases**

PROJECT: **Replacement of Chuckwalla Valley Road Bridge over Aztec Ditch [Br. No. 56C0102, FPN BRL0-5956(239)]**      DATE: **September 14, 2017**

TASK	SENIOR PROJECT MANAGER	SENIOR BRIDGE ENGINEER	SENIOR ROADWAY ENGINEER	DESIGN ENGINEER III	DESIGN ENGINEER I	SENIOR CAD/D TECHNICIAN	PROJECT CONTROLLER	HOURS	(Top & Bottom) HOURS
	151	171	260	314	182	444	10	1,532	1,532

PHASE TOTALS	\$253.08	\$174.80	\$174.04	\$135.59	\$109.44	\$106.40	\$165.88	1,532	1,532
PHASE I	72	31	121	24	92	4	344	344	344
PHASE II	68	116	118	292	158	330	4	1,086	1,086
PHASE III	2	4	4	1	2	13	13	13	13
PHASE IV	9	20	17	21	20	2	89	89	89

TASK	HOURS

**PHASE TOTALS**

PHASE I	
PHASE II	
PHASE III	
PHASE IV	











# Engineering and Environmental Services

## Replacement of Chuckwalla Valley Road Bridge over Tarantula Ditch [Br. No. 56C0103, FPN BRLO-5956(227)] Fee Proposal Summary

September 14, 2017

COMPANIES	PHASE I	PHASE II	PHASE III	PHASE IV	TOTAL
CNS Engineers, Inc. Prime	\$ 63,453.00	\$ 150,680.94	\$ 2,249.92	\$ 14,039.14	\$ 230,423.00
WSP   Parsons Brinckerhoff Environmental	\$ 92,058.76	\$ 13,980.78			\$ 106,039.54
Applied Earthwork Environmental	\$ 22,106.67				\$ 22,106.67
ICF Jones & Stokes Environmental	\$ 35,007.77				\$ 35,007.77
Aguilar Consulting, Inc. (ACI) Channel Hydraulics	\$ 22,706.45				\$ 22,706.45
Group Delta Consultants Geotechnical and ISA	\$ 21,913.66	\$ 3,700.53			\$ 25,614.19
CASC Engineering and Consulting Water Quality	\$ 6,858.79	\$ 5,335.97	\$ 327.12	\$ 654.24	\$ 13,176.12
KOA Corporation Traffic	\$ 2,327.76	\$ 8,117.08	\$ 407.31	\$ 808.80	\$ 11,660.95
Overland, Pacific & Cutler Utilities	\$ 6,870.00	\$ 107.74			\$ 6,977.74
<b>TOTAL</b>	<b>\$ 273,302.86</b>	<b>\$ 181,923.04</b>	<b>\$ 2,984.35</b>	<b>\$ 15,502.18</b>	<b>\$ 473,712.43</b>

Phase I Preliminary Engineering & Environmental Documentation

Phase II Plans, Specifications & Estimate (PS&E)

Phase III Construction Bidding and Award Supports

Phase IV Design Construction Supports



**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Project Summary</b>	PHASE: <b>All Phases</b>
PROJECT: <b>Replacement of Chuckwalla Valley Road Bridge over Tarantula Ditch [Br. No. 56C0103, FPN BRLO-5956(227)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
James J. Lu	Senior Project Manager *	151	@	\$83.25	\$12,570.75
Quy T. Nguyen	Senior Bridge Engineer	171	@	\$57.50	\$9,832.50
Steve Hosford	Senior Roadway Engineer	260	@	\$57.25	\$14,885.00
Lynn Odgiiv	Design Engineer III	314	@	\$44.60	\$14,004.40
Justin Nguyen	Design Engineer I	182	@	\$36.00	\$6,552.00
Nan Li	Senior CADD Technician	444	@	\$35.00	\$15,540.00
Hui-Min Huang	Project Controller	10	@	\$54.50	\$545.00

\* Key Personnel

TOTAL HOURS **1,532** TOTAL DIRECT LABOR **\$73,929.65**

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$3,389.67
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$40,855.53
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$86,141.46
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$20,431.63
<b>TOTAL MULTIPLIERS</b>			<b>\$150,818.30</b>

**OTHER DIRECT COSTS**

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

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1	LS	@	\$1,272.00	\$1,272.00
Mailing and Special Delivery	1	LS	@	\$116.550	\$116.55
Mileage and Travel	1	LS	@	\$618.50	\$618.50
Miscellaneous (Conference Calls and Supplemental Design Surveys)	1	LS	@	\$3,668.00	\$3,668.00

TOTAL ODC'S **\$5,675.05**

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff	\$34,920.25	\$64,841.99	\$6,277.30	\$106,039.54
Applied Earthwork	\$8,291.50	\$11,924.42	\$1,890.75	\$22,106.67
ICF Jones & Stokes	\$11,400.11	\$21,422.61	\$2,185.05	\$35,007.77
Aguilar Consulting, Inc. (ACI)	\$8,929.12	\$13,039.33	\$738.00	\$22,706.45
Group Delta Consultants	\$5,986.02	\$12,910.67	\$6,717.50	\$25,614.19
CASC Engineering and Consulting	\$4,311.25	\$8,627.27	\$237.60	\$13,176.12
KOA Corporation	\$3,867.00	\$7,383.45	\$410.50	\$11,660.95
Overland, Pacific & Cutler	\$2,345.22	\$4,632.52		\$6,977.74

TOTAL SUBCONSULTANT SERVICES **\$243,289.43**

TOTAL **\$473,712.43**

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

FPN: BRLO-5956(227)

Consultant: CNS Engineers, Inc.

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	2500	\$150.00
24"X36" COLOR BOARD	\$16.00	2	\$32.00
11"X17" B/W	\$0.10	200	\$20.00
24"X36" B/W	\$5.00	100	\$500.00
24"X36" COLOR	\$10.00	2	\$20.00
BINDING	\$5.00	2	\$10.00
FULL SIZE (MYLER)	\$15.00	36	\$540.00
			\$0.00
<b>SUBTOTAL COST</b>			<b>\$1,272.00</b>
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Priority Mail	\$6.65	7	\$46.55
FedEx	\$35.00	2	\$70.00
			\$0.00
<b>SUBTOTAL COST</b>			<b>\$116.55</b>
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	1100	\$588.50
Parking	\$5.00	6	\$30.00
<b>TOTAL BUDGET</b>			<b>\$618.50</b>
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Conference Calls	\$0.06	2800	\$168.00
On-call Supplemental Design Surveys	\$3,500.00	1	\$3,500.00
			\$0.00
			\$0.00
<b>SUBTOTAL COST</b>			<b>\$3,668.00</b>
<b>TOTAL ODCs</b>			<b>\$5,675.05</b>

**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.

**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Preliminary Engineering &amp; Environmental Documentation</b>	PHASE: <b>Phase I</b>
PROJECT: <b>Replacement of Chuckwalla Valley Road Bridge over Tarantula Ditch [Br. No. 56C0103, FPN BRLO-5956(227)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS	RATE	AMOUNT	
James J. Lu	Senior Project Manager	72	@ \$83.25	\$5,994.00	
Quy T. Nguyen	Senior Bridge Engineer	31	@ \$57.50	\$1,782.50	
Steve Hosford	Senior Roadway Engineer	121	@ \$57.25	\$6,927.25	
Lynn Odgiov	Design Engineer III		\$44.60		
Justin Nguyen	Design Engineer I	24	@ \$36.00	\$864.00	
Nan Li	Senior CADD Technician	92	@ \$35.00	\$3,220.00	
Hui-Min Huang	Project Controller	4	@ \$54.50	\$218.00	
		<b>TOTAL HOURS</b>	<b>344</b>	<b>TOTAL DIRECT LABOR</b>	<b>\$19,005.75</b>

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$871.41	
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$10,503.09	
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$22,145.15	
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$5,252.54	
			<b>TOTAL MULTIPLIERS</b>	<b>\$38,772.20</b>

**OTHER DIRECT COSTS**

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

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT	
Reproduction	1	LS	@ \$1,272.00	\$1,272.00	
Mailing and Special Delivery	1	LS	@ \$116.55	\$116.55	
Mileage and Travel	1	LS	@ \$618.50	\$618.50	
Miscellaneous (Conference Calls and Supplemental Design Surveys)	1	LS	@ \$3,668.00	\$3,668.00	
				<b>TOTAL ODC'S</b>	<b>\$5,675.05</b>

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL	
WSP   Parsons Brinckerhoff	\$30,026.49	\$55,754.97	\$6,277.30	\$92,058.76	
Applied Earthwork	\$8,291.50	\$11,924.42	\$1,890.75	\$22,106.67	
ICF Jones & Stokes	\$11,400.11	\$21,422.61	\$2,185.05	\$35,007.77	
Aguilar Consulting, Inc. (ACI)	\$8,929.12	\$13,039.33	\$738.00	\$22,706.45	
Group Delta Consultants	\$4,813.78	\$10,382.38	\$6,717.50	\$21,913.66	
CASC Engineering and Consulting	\$2,206.25	\$4,414.94	\$237.60	\$6,858.79	
KOA Corporation	\$659.00	\$1,258.26	\$410.50	\$2,327.76	
Overland, Pacific & Cutler	\$2,309.01	\$4,560.99		\$6,870.00	
				<b>TOTAL SUBCONSULTANT SERVICES</b>	<b>\$209,849.86</b>

**TOTAL** **\$273,302.86**

**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Plans, Specifications &amp; Estimate (PS&amp;E)</b>	PHASE: <b>Phase II</b>
PROJECT: <b>Replacement of Chuckwalla Valley Road Bridge over Tarantula Ditch [Br. No. 56C0103, FPN BRLO-5956(227)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
James J. Lu	Senior Project Manager	68	@ \$83.25	\$5,661.00
Quyet T. Nguyen	Senior Bridge Engineer	116	@ \$57.50	\$6,670.00
Steve Hosford	Senior Roadway Engineer	118	@ \$57.25	\$6,755.50
Lynn Odgiv	Design Engineer III	292	@ \$44.60	\$13,023.20
Justin Nguyen	Design Engineer I	158	@ \$36.00	\$5,688.00
Nan Li	Senior CADD Technician	330	@ \$35.00	\$11,550.00
Hui-Min Huang	Project Controller	4	@ \$54.50	\$218.00

TOTAL HOURS **1,086** TOTAL DIRECT LABOR **\$49,565.70**

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$2,272.59
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$27,391.35
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$57,753.04
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$13,698.27

TOTAL MULTIPLIERS **\$101,115.24**

**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 (Conference Calls and Supplemental Design Surveys)		LS		

TOTAL ODC'S

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff	\$4,893.76	\$9,087.02		\$13,980.78
Applied Earthwork				
ICF Jones & Stokes				
Aguilar Consulting, Inc. (ACI)				
Group Delta Consultants	\$1,172.24	\$2,528.29		\$3,700.53
CASC Engineering and Consulting	\$1,778.00	\$3,557.97		\$5,335.97
KOA Corporation	\$2,790.00	\$5,327.08		\$8,117.08
Overland, Pacific & Cutler	\$36.21	\$71.53		\$107.74

TOTAL SUBCONSULTANT SERVICES **\$31,242.10**

TOTAL **\$181,923.04**

**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Construction Bidding and Award Supports</b>	PHASE: <b>Phase III</b>
PROJECT: <b>Replacement of Chuckwalla Valley Road Bridge over Tarantula Ditch [Br. No. 56C0103, FPN BRLO-5956(227)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS	RATE	AMOUNT	
James J. Lu	Senior Project Manager	2	@ \$83.25	\$166.50	
Quyet T. Nguyen	Senior Bridge Engineer	4	@ \$57.50	\$230.00	
Steve Hosford	Senior Roadway Engineer	4	@ \$57.25	\$229.00	
Lynn Odgiov	Design Engineer III	1	@ \$44.60	\$44.60	
Justin Nguyen	Design Engineer I		\$36.00		
Nan Li	Senior CADD Technician	2	@ \$35.00	\$70.00	
Hui-Min Huang	Project Controller		\$54.50		
		<b>TOTAL HOURS</b>	<b>13</b>	<b>TOTAL DIRECT LABOR</b>	<b>\$740.10</b>

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$33.93	
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$409.00	
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$862.35	
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$204.54	
			<b>TOTAL MULTIPLIERS</b>	<b>\$1,509.82</b>

**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 (Conference Calls and Supplemental Design Surveys)		LS		
				<b>TOTAL ODC'S</b>

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL	
WSP   Parsons Brinckerhoff					
Applied Earthwork					
ICF Jones & Stokes					
Aguilar Consulting, Inc. (ACI)					
Group Delta Consultants					
CASC Engineering and Consulting	\$109.00	\$218.12		\$327.12	
KOA Corporation	\$140.00	\$267.31		\$407.31	
Overland, Pacific & Cutler					
				<b>TOTAL SUBCONSULTANT SERVICES</b>	<b>\$734.43</b>

**TOTAL** **\$2,984.35**

**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Design Construction Supports</b>	PHASE: <b>Phase IV</b>
PROJECT: <b>Replacement of Chuckwalla Valley Road Bridge over Tarantula Ditch [Br. No. 56C0103, FPN BRLO-5956(227)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
James J. Lu	Senior Project Manager	9	@	\$83.25	\$749.25
Quyett T. Nguyen	Senior Bridge Engineer	20	@	\$57.50	\$1,150.00
Steve Hosford	Senior Roadway Engineer	17	@	\$57.25	\$973.25
Lynn Odgiov	Design Engineer III	21	@	\$44.60	\$936.60
Justin Nguyen	Design Engineer I			\$36.00	
Nan Li	Senior CADD Technician	20	@	\$35.00	\$700.00
Hui-Min Huang	Project Controller	2	@	\$54.50	\$109.00

TOTAL HOURS **89** TOTAL DIRECT LABOR **\$4,618.10**

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$211.74
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$2,552.09
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$5,380.92
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$1,276.29
<b>TOTAL MULTIPLIERS</b>			<b>\$9,421.04</b>

**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 (Conference Calls and Supplemental Design Surveys)		LS		

TOTAL ODC'S

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff Applied Earthwork ICF Jones & Stokes Aguilar Consulting, Inc. (ACI)				
Group Delta Consultants CASC Engineering and Consulting	\$218.00	\$436.24		\$654.24
KOA Corporation Overland, Pacific & Cutler	\$278.00	\$530.80		\$808.80

TOTAL SUBCONSULTANT SERVICES **\$1,463.04**

TOTAL **\$15,502.18**

**MANHOURLY WORKSHEET**

COMPANY: CNS Engineers, Inc.      SCOPE OF WORK: Manhour Summary      PHASE: All Phases  
 PROJECT: Replacement of Chuckwalla Valley Road Bridge over Tarantula Ditch [Br. No. 56C0103, FPN BRLO-5956(227)]      DATE: September 14, 2017

TASK	SENIOR PROJECT MANAGER	SENIOR BRIDGE ENGINEER	SENIOR ROADWAY ENGINEER	DESIGN ENGINEER III	DESIGN ENGINEER I	SENIOR CAD TECHNICIAN	PROJECT CONTROLLER	HOURS	(Top & Bottom) HOURS
	151	171	260	314	182	444	10	1,532	1,532
	\$253.08	\$174.80	\$174.04	\$135.59	\$109.44	\$106.40	\$165.68		

**PHASE TOTALS**

PHASE I	72	31	121	24	92	4	344	344
PHASE II	68	116	118	292	158	330	4	1,086
PHASE III	2	4	4	1	2			13
PHASE IV	9	20	17	21	20	2		89

TASK	HOURS

**PHASE TOTALS**

PHASE I	
PHASE II	
PHASE III	
PHASE IV	

**MANHOUR WORKSHEET**

COMPANY:

CNS Engineers, Inc.

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:

September 14, 2017

SENIOR PROJECT MANAGER	SENIOR BRIDGE ENGINEER	SENIOR ROADWAY ENGINEER	DESIGN ENGINEER III	DESIGN ENGINEER I	SENIOR CAD/TECHNICAL	PROJECT CONTROLLER
\$253.08	\$174.80	\$174.04	\$135.59	\$109.44	\$106.40	\$165.88

	72	31	121	24	92	4	344
<b>Total Manhours</b>	<b>30</b>	<b>4</b>	<b>25</b>			<b>4</b>	
1.1 Project Management	18	4	20				59 \$ 12,606
1.2 Project Team Meetings	6		10				42 \$ 8,736
1.3 Quality Control and Quality Assurance (QC/QA)							16 \$ 3,259
2.0 Research and Data Gathering							
2.1 Collect and Review Existing Information	2	1	2		2		5 \$ 736
2.2 Conduct Field Review		2	2				6 \$ 1,204
3.0 Preliminary Engineering							
3.1 Traffic Study (Technical Memorandum/Traffic Summary)							
3.2 Preliminary Utility Mapping							
3.3 Permits			2				2 \$ 348
3.4 Surveying and Right-of-Way Mapping (by County)							
3.5 Preliminary Geotechnical Studies							
3.6 Right-of-Way Requirements Map			5		8		13 \$ 1,721
3.7 Geometric Approval Drawings	1		33		46		80 \$ 10,891
3.8 Structure Advance Planning Study	2	20		16	24		62 \$ 8,307
3.9 Hydrologic, Hydraulic and Scour Studies							
3.10 Advisory and Mandatory Fact Sheets			4				4 \$ 696
3.11 Engineer's Estimate	1	4	4	8	8		25 \$ 3,375
4.0 Environmental Clearance & Documentation							
4.1 Project Initiation	4		4		4		12 \$ 2,134
4.2 Preliminary Environmental Study (PES)							
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							
NESMI							
Biological Resource Agency Coordination							
Biological Assessment/Section 7 Consultation (Step-2)							
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)							











# Engineering and Environmental Services

**Replacement of Chuckwalla Valley Road Bridge over Sutro Ditch [Br. No. 56C0104, FPN BRLO-5956(226)] Fee Proposal Summary**

September 14, 2017

COMPANIES	PHASE I	PHASE II	PHASE III	PHASE IV	TOTAL
CNS Engineers, Inc. Prime	\$ 63,453.00	\$ 150,680.94	\$ 2,249.92	\$ 14,039.14	\$ 230,423.00
WSP   Parsons Brinckerhoff Environmental	\$ 92,058.76	\$ 13,980.78			\$ 106,039.54
Applied Earthwork Environmental	\$ 22,106.67				\$ 22,106.67
ICF Jones & Stokes Environmental	\$ 35,007.77				\$ 35,007.77
Agular Consulting, Inc. (ACI) Channel Hydraulics	\$ 22,706.45				\$ 22,706.45
Group Delta Consultants Geotechnical and ISA	\$ 21,913.66	\$ 3,700.53			\$ 25,614.19
CASC Engineering and Consulting Water Quality	\$ 6,858.79	\$ 5,335.97	\$ 327.12	\$ 654.24	\$ 13,176.12
KOA Corporation Traffic	\$ 2,327.76	\$ 8,117.08	\$ 407.31	\$ 808.80	\$ 11,660.95
Overland, Pacific & Cutler Utilities	\$ 6,870.00	\$ 107.74			\$ 6,977.74
<b>TOTAL</b>	<b>\$ 273,302.86</b>	<b>\$ 181,923.04</b>	<b>\$ 2,984.35</b>	<b>\$ 15,502.18</b>	<b>\$ 473,712.43</b>

- Phase I Preliminary Engineering & Environmental Documentation
- Phase II Plans, Specifications & Estimate (PS&E)
- Phase III Construction Bidding and Award Supports
- Phase IV Design Construction Supports

**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Project Summary</b>	PHASE: <b>All Phases</b>
PROJECT: <b>Replacement of Chuckwalla Valley Road Bridge over Sutro Ditch [Br. No. 56C0104, FPN BRLO-5956(226)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
James J. Lu	Senior Project Manager *	151	@	\$83.25	\$12,570.75
Quyett T. Nguyen	Senior Bridge Engineer	171	@	\$57.50	\$9,832.50
Steve Hosford	Senior Roadway Engineer	260	@	\$57.25	\$14,885.00
Lynn Odgiv	Design Engineer III	314	@	\$44.60	\$14,004.40
Justin Nguyen	Design Engineer I	182	@	\$36.00	\$6,552.00
Nan Li	Senior CADD Technician	444	@	\$35.00	\$15,540.00
Hui-Min Huang	Project Controller	10	@	\$54.50	\$545.00

\* Key Personnel

TOTAL HOURS **1,532** TOTAL DIRECT LABOR **\$73,929.65**

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$3,389.67
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$40,855.53
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$86,141.46
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$20,431.63
<b>TOTAL MULTIPLIERS</b>			<b>\$150,818.30</b>

**OTHER DIRECT COSTS**

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

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1	LS	@	\$1,272.00	\$1,272.00
Mailing and Special Delivery	1	LS	@	\$116.550	\$116.55
Mileage and Travel	1	LS	@	\$618.50	\$618.50
Miscellaneous (Conference Calls and Supplemental Design Surveys)	1	LS	@	\$3,668.00	\$3,668.00

TOTAL ODC'S **\$5,675.05**

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff	\$34,920.25	\$64,841.99	\$6,277.30	\$106,039.54
Applied Earthwork	\$8,291.50	\$11,924.42	\$1,890.75	\$22,106.67
ICF Jones & Stokes	\$11,400.11	\$21,422.61	\$2,185.05	\$35,007.77
Aguilar Consulting, Inc. (ACI)	\$8,929.12	\$13,039.33	\$738.00	\$22,706.45
Group Delta Consultants	\$5,986.02	\$12,910.67	\$6,717.50	\$25,614.19
CASC Engineering and Consulting	\$4,311.25	\$8,627.27	\$237.60	\$13,176.12
KOA Corporation	\$3,867.00	\$7,383.45	\$410.50	\$11,660.95
Overland, Pacific & Cutler	\$2,345.22	\$4,632.52		\$6,977.74

TOTAL SUBCONSULTANT SERVICES **\$243,289.43**

TOTAL **\$473,712.43**

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

FPN: BRLO-5956(226)

Consultant: **CNS Engineers, Inc.**

Contract No.:

Date: **3/27/2017**

<b>Reproduction Cost Breakdown</b>			
<b>DESCRIPTION OF ITEMS</b>	<b>UNIT COST</b>	<b>ESTIMATED QUANTITY</b>	<b>TOTAL COST</b>
8.5"X11" B/W	\$0.06	2500	\$150.00
24"X36" COLOR BOARD	\$16.00	2	\$32.00
11"X17" BW	\$0.10	200	\$20.00
24"X36" B/W	\$5.00	100	\$500.00
24"X36" COLOR	\$10.00	2	\$20.00
BINDING	\$5.00	2	\$10.00
FULL SIZE (MYLER)	\$15.00	36	\$540.00
			\$0.00
<b>SUBTOTAL COST</b>			<b>\$1,272.00</b>
<b>Mailing and Special Delivery Cost Breakdown</b>			
<b>DESCRIPTION OF ITEMS</b>	<b>UNIT COST</b>	<b>ESTIMATED QUANTITY</b>	<b>TOTAL COST</b>
Priority Mail	\$6.65	7	\$46.55
FedEx	\$35.00	2	\$70.00
			\$0.00
<b>SUBTOTAL COST</b>			<b>\$116.55</b>
<b>Mileage &amp; Travel</b>			
<b>DESCRIPTION OF ITEMS</b>	<b>UNIT COST</b>	<b>ESTIMATED QUANTITY</b>	<b>TOTAL COST</b>
Mileage (2017 IRS Standard Rate)	\$0.535	1100	\$588.50
Parking	\$5.00	6	\$30.00
<b>TOTAL BUDGET</b>			<b>\$618.50</b>
<b>Miscellaneous</b>			
<b>DESCRIPTION OF ITEMS</b>	<b>UNIT COST</b>	<b>ESTIMATED QUANTITY</b>	<b>TOTAL COST</b>
Conference Calls	\$0.06	2800	\$168.00
On-call Supplemental Design Surveys	\$3,500.00	1	\$3,500.00
			\$0.00
			\$0.00
<b>SUBTOTAL COST</b>			<b>\$3,668.00</b>
<b>TOTAL ODCs</b>			<b>\$5,675.05</b>

**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.

FEE PROPOSAL WORKSHEET		
COMPANY: CNS Engineers, Inc.	SCOPE OF WORK: Preliminary Engineering & Environmental Documentation	PHASE: Phase I
PROJECT: Replacement of Chuckwalla Valley Road Bridge over Sutro Ditch [Br. No. 56C0104, FPN BRLO-5956(226)]		DATE: September 14, 2017

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
James J. Lu	Senior Project Manager	72	@	\$83.25	\$5,994.00
Quyett T. Nguyen	Senior Bridge Engineer	31	@	\$57.50	\$1,782.50
Steve Hosford	Senior Roadway Engineer	121	@	\$57.25	\$6,927.25
Lynn Odiiv	Design Engineer III			\$44.60	
Justin Nguyen	Design Engineer I	24	@	\$36.00	\$864.00
Nan Li	Senior CADD Technician	92	@	\$35.00	\$3,220.00
Hui-Min Huang	Project Controller	4	@	\$54.50	\$218.00

TOTAL HOURS                    **344**                    TOTAL DIRECT LABOR                    **\$19,005.75**

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$871.41
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$10,503.09
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$22,145.15
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$5,252.54
TOTAL MULTIPLIERS			<b>\$38,772.20</b>

**OTHER DIRECT COSTS**

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

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1	LS	@	\$1,272.00	\$1,272.00
Mailing and Special Delivery	1	LS	@	\$116.550	\$116.55
Mileage and Travel	1	LS	@	\$618.50	\$618.50
Miscellaneous (Conference Calls and Supplemental Design Surveys)	1	LS	@	\$3,668.00	\$3,668.00

TOTAL ODC'S                    **\$5,675.05**

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff	\$30,026.49	\$55,754.97	\$6,277.30	\$92,058.76
Applied Earthwork	\$8,291.50	\$11,924.42	\$1,890.75	\$22,106.67
ICF Jones & Stokes	\$11,400.11	\$21,422.61	\$2,185.05	\$35,007.77
Aguilar Consulting, Inc. (ACI)	\$8,929.12	\$13,039.33	\$738.00	\$22,706.45
Group Delta Consultants	\$4,813.78	\$10,382.38	\$6,717.50	\$21,913.66
CASC Engineering and Consulting	\$2,206.25	\$4,414.94	\$237.60	\$6,858.79
KOA Corporation	\$659.00	\$1,258.26	\$410.50	\$2,327.76
Overland, Pacific & Cutler	\$2,309.01	\$4,560.99		\$6,870.00

TOTAL SUBCONSULTANT SERVICES                    **\$209,849.86**

TOTAL                    **\$273,302.86**



**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Plans, Specifications &amp; Estimate (PS&amp;E)</b>	PHASE: <b>Phase II</b>
PROJECT: <b>Replacement of Chuckwalla Valley Road Bridge over Sutro Ditch [Br. No. 56C0104, FPN BRLO-5956(226)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS		RATE	AMOUNT	
James J. Lu	Senior Project Manager	68	@	\$83.25	\$5,661.00	
Quyet T. Nguyen	Senior Bridge Engineer	116	@	\$57.50	\$6,670.00	
Steve Hosford	Senior Roadway Engineer	118	@	\$57.25	\$6,755.50	
Lynn Odgiv	Design Engineer III	292	@	\$44.60	\$13,023.20	
Justin Nguyen	Design Engineer I	158	@	\$36.00	\$5,688.00	
Nan Li	Senior CADD Technician	330	@	\$35.00	\$11,550.00	
Hui-Min Huang	Project Controller	4	@	\$54.50	\$218.00	
		<b>TOTAL HOURS</b>		<b>1,086</b>	<b>TOTAL DIRECT LABOR</b>	<b>\$49,565.70</b>

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$2,272.59
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$27,391.35
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$57,753.04
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$13,698.27
<b>TOTAL MULTIPLIERS</b>			<b>\$101,115.24</b>

**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 (Conference Calls and Supplemental Design Surveys)		LS		
<b>TOTAL ODC'S</b>				

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff Applied Earthwork ICF Jones & Stokes Aguilar Consulting, Inc. (ACI)	\$4,893.76	\$9,087.02		\$13,980.78
Group Delta Consultants	\$1,172.24	\$2,528.29		\$3,700.53
CASC Engineering and Consulting	\$1,778.00	\$3,557.97		\$5,335.97
KOA Corporation	\$2,790.00	\$5,327.08		\$8,117.08
Overland, Pacific & Cutler	\$36.21	\$71.53		\$107.74
<b>TOTAL SUBCONSULTANT SERVICES</b>				<b>\$31,242.10</b>
<b>TOTAL</b>				<b>\$181,923.04</b>

FEE PROPOSAL WORKSHEET		
COMPANY: CNS Engineers, Inc.	SCOPE OF WORK: Construction Bidding and Award Supports	PHASE: Phase III
PROJECT: Replacement of Chuckwalla Valley Road Bridge over Sutro Ditch [Br. No. 56C0104, FPN BRLO-5956(226)]		DATE: September 14, 2017

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
James J. Lu	Senior Project Manager	2	@ \$83.25	\$166.50
Quyett T. Nguyen	Senior Bridge Engineer	4	@ \$57.50	\$230.00
Steve Hosford	Senior Roadway Engineer	4	@ \$57.25	\$229.00
Lynn Odgivi	Design Engineer III	1	@ \$44.60	\$44.60
Justin Nguyen	Design Engineer I		\$36.00	
Nan Li	Senior CADD Technician	2	@ \$35.00	\$70.00
Hui-Min Huang	Project Controller		\$54.50	

TOTAL HOURS 13 TOTAL DIRECT LABOR \$740.10

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$33.93
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$409.00
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$862.35
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$204.54
TOTAL MULTIPLIERS			\$1,509.82

**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 (Conference Calls and Supplemental Design Surveys)		LS		

TOTAL ODC'S

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff				
Applied Earthwork				
ICF Jones & Stokes				
Aguilar Consulting, Inc. (ACI)				
Group Delta Consultants				
CASC Engineering and Consulting	\$109.00	\$218.12		\$327.12
KOA Corporation	\$140.00	\$267.31		\$407.31
Overland, Pacific & Cutler				

TOTAL SUBCONSULTANT SERVICES \$734.43

TOTAL \$2,984.35

**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Design Construction Supports</b>	PHASE: <b>Phase IV</b>
PROJECT: <b>Replacement of Chuckwalla Valley Road Bridge over Sutro Ditch [Br. No. 56C0104, FPN BRLO-5956(226)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS	RATE	AMOUNT	
James J. Lu	Senior Project Manager	9	@ \$83.25	\$749.25	
Quyet T. Nguyen	Senior Bridge Engineer	20	@ \$57.50	\$1,150.00	
Steve Hosford	Senior Roadway Engineer	17	@ \$57.25	\$973.25	
Lynn Odgiiv	Design Engineer III	21	@ \$44.60	\$936.60	
Justin Nguyen	Design Engineer I		@ \$36.00		
Nan Li	Senior CADD Technician	20	@ \$35.00	\$700.00	
Hui-Min Huang	Project Controller	2	@ \$54.50	\$109.00	
		<b>TOTAL HOURS</b>	<b>89</b>	<b>TOTAL DIRECT LABOR</b>	<b>\$4,618.10</b>

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$211.74
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$2,552.09
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$5,380.92
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$1,276.29
<b>TOTAL MULTIPLIERS</b>			<b>\$9,421.04</b>

**OTHER DIRECT COSTS**

\*\*\* Billed at Actual Cost \*\*\*

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction		LS		
Mailing and Special Delivery		LS		
Mileage and Travel		LS		
Miscellaneous (Conference Calls and Supplemental Design Surveys)		LS		
<b>TOTAL ODC'S</b>				

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff Applied Earthwork ICF Jones & Stokes Aguilar Consulting, Inc. (ACI)				
Group Delta Consultants CASC Engineering and Consulting	\$218.00	\$436.24		\$654.24
KOA Corporation	\$278.00	\$530.80		\$808.80
Overland, Pacific & Cutler				
<b>TOTAL SUBCONSULTANT SERVICES</b>				<b>\$1,463.04</b>

**TOTAL** **\$15,502.18**

**MANHOOR WORKSHEET**

COMPANY:  
CNS Engineers, Inc.

PROJECT:  
Replacement of Chuckwalla Valley Road Bridge over Suito Ditch [Br. No. 56C0104, FPN BRL0-5956(226)]

SCOPE OF WORK:  
Manhour Summary

PHASE:  
All Phases

DATE:  
September 14, 2017

TASK	SENIOR PROJECT MANAGER	SENIOR BRIDGE ENGINEER	SENIOR ROADWAY ENGINEER	DESIGN ENGINEER III	DESIGN ENGINEER I	SENIOR CADD TECHNICIAN	PROJECT CONTROLLER	HOURS	(Top & Bottom) HOURS
	151	171	260	314	182	444	10	1,532	1,532
	\$253.08	\$174.80	\$174.04	\$135.59	\$109.44	\$106.40	\$165.68		

**PHASE TOTALS**

PHASE I	72	31	121	24	92	4	344
PHASE II	68	116	118	158	330	4	1,086
PHASE III	2	4	4	1	2		13
PHASE IV	9	20	17	21	20	2	89

TASK	HOURS

**PHASE TOTALS**

PHASE I	
PHASE II	
PHASE III	
PHASE IV	



**MANHOUR WORKSHEET**

COMPANY:  
CNS Engineers, Inc.

PROJECT:  
Replacement of Chuckwalla Valley Road Bridge over Surtro Ditch [Br. No. 56C0104, FPN BRLO-5956(226)]

SCOPE OF WORK:  
Preliminary Engineering & Environmental Documentation

PHASE:  
Phase I

DATE:  
September 14, 2017

TASK	SENIOR PROJECT MANAGER	SENIOR BRIDGE ENGINEER	SENIOR ROADWAY ENGINEER	DESIGN ENGINEER III	DESIGN ENGINEER I	SENIOR CAD TECHNICIAN	PROJECT CONTROLLER	HOURS	COST
4.3.8 Culture Resources Study (APE/ASR/HRER/HPSR)									
APE									
ASR									
HRER									
HPSR									
4.3.9A Finding of Effect (FoE) (Step-2)									
4.3.9B Section 106 Memorandum of Agreement (MOA) (Step-2)									
4.3.10 CEQA Notice of Exemption (NOE)									
4.5 CEQA/NEPA Initial Study/Environmental Assessment (IS/EA) (Step-2)									
4.5.1 Administrative Draft IS/EA	8								
4.5.2 Draft IS/EA for Public Review		10							
4.5.3 Public Review									
4.5.4 Draft Mitigated Negative Declaration/Finding of No Significant Impact (MND/FONSI)									
4.5.5 Final MND/FONSI									
								18	\$ 3,765







**MANHOURLY WORKSHEET**

COMPANY:

CNS Engineers, Inc.

PROJECT:

Replacement of Chuckwalla Valley Road Bridge over Suro Ditch [Br. No. 56C0104, FPN BRL0-5956(226)]

SCOPE OF WORK:

Design Construction Supports

PHASE:

Phase IV

DATE:

September 14, 2017

TASK	SENIOR PROJECT MANAGER	SENIOR BRIDGE ENGINEER	SENIOR ROADWAY ENGINEER	DESIGN ENGINEER III	DESIGN ENGINEER I	SENIOR CAD TECHNICIAN	PROJECT CONTROLLER	HOURS	COST
	\$253.08	\$174.80	\$174.04	\$135.59	\$109.44	\$106.40	\$165.68		

**Total Manhours**

9	20	17	21	20	2	89
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7.3 Attend a Pre-Construction Meeting and Site Meetings	1	4	4	2				11	\$ 1,920
7.4 Administration, Respond Contractor's RFIs and Review Shop Drawings/Submittals	6	8	8	12	2			36	\$ 6,268
7.5 Prepare Construction Change Orders	1	4	3	3	4			15	\$ 2,307
7.6 Prepare As-built Plans	1	4	2	4	16			27	\$ 3,545

## Engineering and Environmental Services

**Replacement of Chuckwalla Valley Road Bridge over Acari Ditch [Br. No. 56C0108, FPN BRLO-5956(225)] Fee Proposal Summary**

September 14, 2017

COMPANIES	PHASE I	PHASE II	PHASE III	PHASE IV	TOTAL
CNS Engineers, Inc. Prime	\$ 63,453.00	\$ 150,680.94	\$ 2,249.92	\$ 14,039.14	\$ 230,423.00
WSP   Parsons Brinckerhoff Environmental	\$ 92,058.76	\$ 13,980.78			\$ 106,039.54
Applied Earthwork Environmental	\$ 22,106.67				\$ 22,106.67
ICF Jones & Stokes Environmental	\$ 35,007.77				\$ 35,007.77
Aguilar Consulting, Inc. (ACI) Channel Hydraulics	\$ 22,706.45				\$ 22,706.45
Group Delta Consultants Geotechnical and ISA	\$ 21,913.66	\$ 3,700.53			\$ 25,614.19
CASC Engineering and Consulting Water Quality	\$ 6,858.79	\$ 5,335.97	\$ 327.12	\$ 654.24	\$ 13,176.12
KOA Corporation Traffic	\$ 2,327.76	\$ 8,117.08	\$ 407.31	\$ 808.80	\$ 11,660.95
Overland, Pacific & Cutler Utilities	\$ 6,870.00	\$ 107.74			\$ 6,977.74
<b>TOTAL</b>	<b>\$ 273,302.86</b>	<b>\$ 181,923.04</b>	<b>\$ 2,984.35</b>	<b>\$ 15,502.18</b>	<b>\$ 473,712.43</b>

- Phase I Preliminary Engineering & Environmental Documentation
- Phase II Plans, Specifications & Estimate (PS&E)
- Phase III Construction Bidding and Award Supports
- Phase IV Design Construction Supports

**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Project Summary</b>	PHASE: <b>All Phases</b>
PROJECT: <b>Replacement of Chuckwalla Valley Road Bridge over Acari Ditch [Br. No. 56C0108, FPN BRLO-5956(225)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
James J. Lu	Senior Project Manager *	151	@	\$83.25	\$12,570.75
Quy T. Nguyen	Senior Bridge Engineer	171	@	\$57.50	\$9,832.50
Steve Hosford	Senior Roadway Engineer	260	@	\$57.25	\$14,885.00
Lynn Odogiiv	Design Engineer III	314	@	\$44.60	\$14,004.40
Justin Nguyen	Design Engineer I	182	@	\$36.00	\$6,552.00
Nan Li	Senior CADD Technician	444	@	\$35.00	\$15,540.00
Hui-Min Huang	Project Controller	10	@	\$54.50	\$545.00

\* Key Personnel

TOTAL HOURS **1,532** TOTAL DIRECT LABOR **\$73,929.65**

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$3,389.67
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$40,855.53
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$86,141.46
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$20,431.63
<b>TOTAL MULTIPLIERS</b>			<b>\$150,818.30</b>

**OTHER DIRECT COSTS**

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

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction	1	LS	@ \$1,272.00	\$1,272.00
Mailing and Special Delivery	1	LS	\$116.550	\$116.55
Mileage and Travel	1	LS	\$618.50	\$618.50
Miscellaneous (Conference Calls and Supplemental Design Surveys)	1	LS	\$3,668.00	\$3,668.00

TOTAL ODC'S **\$5,675.05**

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff	\$34,920.25	\$64,841.99	\$6,277.30	\$106,039.54
Applied Earthwork	\$8,291.50	\$11,924.42	\$1,890.75	\$22,106.67
ICF Jones & Stokes	\$11,400.11	\$21,422.61	\$2,185.05	\$35,007.77
Aguilar Consulting, Inc. (ACI)	\$8,929.12	\$13,039.33	\$738.00	\$22,706.45
Group Delta Consultants	\$5,986.02	\$12,910.67	\$6,717.50	\$25,614.19
CASC Engineering and Consulting	\$4,311.25	\$8,627.27	\$237.60	\$13,176.12
KOA Corporation	\$3,867.00	\$7,383.45	\$410.50	\$11,660.95
Overland, Pacific & Cutler	\$2,345.22	\$4,632.52		\$6,977.74

TOTAL SUBCONSULTANT SERVICES **\$243,289.43**

TOTAL **\$473,712.43**

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

FPN: BRLO-5956(225)

Consultant: CNS Engineers, Inc.

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	2500	\$150.00
24"X36" COLOR BOARD	\$16.00	2	\$32.00
11"X17" B/W	\$0.10	200	\$20.00
24"X36" B/W	\$5.00	100	\$500.00
24"X36" COLOR	\$10.00	2	\$20.00
BINDING	\$5.00	2	\$10.00
FULL SIZE (MYLER)	\$15.00	36	\$540.00
			\$0.00
<b>SUBTOTAL COST</b>			<b>\$1,272.00</b>
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Priority Mail	\$6.65	7	\$46.55
FedEx	\$35.00	2	\$70.00
			\$0.00
<b>SUBTOTAL COST</b>			<b>\$116.55</b>
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	1100	\$588.50
Parking	\$5.00	6	\$30.00
<b>TOTAL BUDGET</b>			<b>\$618.50</b>
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Conference Calls	\$0.06	2800	\$168.00
On-call Supplemental Design Surveys	\$3,500.00	1	\$3,500.00
			\$0.00
			\$0.00
<b>SUBTOTAL COST</b>			<b>\$3,668.00</b>
<b>TOTAL ODCs</b>			<b>\$5,675.05</b>

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.

**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Preliminary Engineering &amp; Environmental Documentation</b>	PHASE: <b>Phase I</b>
PROJECT: <b>Replacement of Chuckwalla Valley Road Bridge over Acari Ditch [Br. No. 56C0108, FPN BRLO-5956(225)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS		RATE	AMOUNT	
James J. Lu	Senior Project Manager	72	@	\$83.25	\$5,994.00	
Quyett T. Nguyen	Senior Bridge Engineer	31	@	\$57.50	\$1,782.50	
Steve Hosford	Senior Roadway Engineer	121	@	\$57.25	\$6,927.25	
Lynn Odgiiv	Design Engineer III			\$44.60		
Justin Nguyen	Design Engineer I	24	@	\$36.00	\$864.00	
Nan Li	Senior CADD Technician	92	@	\$35.00	\$3,220.00	
Hui-Min Huang	Project Controller	4	@	\$54.50	\$218.00	
		<b>TOTAL HOURS</b>		<b>344</b>	<b>TOTAL DIRECT LABOR</b>	<b>\$19,005.75</b>

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$871.41
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$10,503.09
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$22,145.15
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$5,252.54
<b>TOTAL MULTIPLIERS</b>			<b>\$38,772.20</b>

**OTHER DIRECT COSTS**

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

ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Reproduction	1	LS	@	\$1,272.00	\$1,272.00
Mailing and Special Delivery	1	LS	@	\$116.550	\$116.55
Mileage and Travel	1	LS	@	\$618.50	\$618.50
Miscellaneous (Conference Calls and Supplemental Design Surveys)	1	LS	@	\$3,668.00	\$3,668.00
<b>TOTAL ODC'S</b>					<b>\$5,675.05</b>

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC'S	TOTAL
WSP   Parsons Brinckerhoff	\$30,026.49	\$55,754.97	\$6,277.30	\$92,058.76
Applied Earthwork	\$8,291.50	\$11,924.42	\$1,890.75	\$22,106.67
ICF Jones & Stokes	\$11,400.11	\$21,422.61	\$2,185.05	\$35,007.77
Aguilar Consulting, Inc. (ACI)	\$8,929.12	\$13,039.33	\$738.00	\$22,706.45
Group Delta Consultants	\$4,813.78	\$10,382.38	\$6,717.50	\$21,913.66
CASC Engineering and Consulting	\$2,206.25	\$4,414.94	\$237.60	\$6,858.79
KOA Corporation	\$659.00	\$1,258.26	\$410.50	\$2,327.76
Overland, Pacific & Cutler	\$2,309.01	\$4,560.99		\$6,870.00
<b>TOTAL SUBCONSULTANT SERVICES</b>				<b>\$209,849.86</b>
<b>TOTAL</b>				<b>\$273,302.86</b>

**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Plans, Specifications &amp; Estimate (PS&amp;E)</b>	PHASE: <b>Phase II</b>
PROJECT: <b>Replacement of Chuckwalla Valley Road Bridge over Acari Ditch [Br. No. 56C0108, FPN BRLO-5956(225)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS		RATE	AMOUNT	
James J. Lu	Senior Project Manager	68	@	\$83.25	\$5,661.00	
Quyett T. Nguyen	Senior Bridge Engineer	116	@	\$57.50	\$6,670.00	
Steve Hosford	Senior Roadway Engineer	118	@	\$57.25	\$6,755.50	
Lynn Odgiv	Design Engineer III	292	@	\$44.60	\$13,023.20	
Justin Nguyen	Design Engineer I	158	@	\$36.00	\$5,688.00	
Nan Li	Senior CADD Technician	330	@	\$35.00	\$11,550.00	
Hui-Min Huang	Project Controller	4	@	\$54.50	\$218.00	
		<b>TOTAL HOURS</b>		<b>1,086</b>	<b>TOTAL DIRECT LABOR</b>	<b>\$49,565.70</b>

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$2,272.59
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$27,391.35
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$57,753.04
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$13,698.27
<b>TOTAL MULTIPLIERS</b>			<b>\$101,115.24</b>

**OTHER DIRECT COSTS**

\*\*\* Billed at Actual Cost \*\*\*

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction		LS		
Mailing and Special Delivery		LS		
Mileage and Travel		LS		
Miscellaneous (Conference Calls and Supplemental Design Surveys)		LS		
<b>TOTAL ODC'S</b>				

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff	\$4,893.76	\$9,087.02		\$13,980.78
Applied Earthwork				
ICF Jones & Stokes				
Aguilar Consulting, Inc. (ACI)				
Group Delta Consultants	\$1,172.24	\$2,528.29		\$3,700.53
CASC Engineering and Consulting	\$1,778.00	\$3,557.97		\$5,335.97
KOA Corporation	\$2,790.00	\$5,327.08		\$8,117.08
Overland, Pacific & Cutler	\$36.21	\$71.53		\$107.74
<b>TOTAL SUBCONSULTANT SERVICES</b>				<b>\$31,242.10</b>

**TOTAL \$181,923.04**

**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Construction Bidding and Award Supports</b>	PHASE: <b>Phase III</b>
PROJECT: <b>Replacement of Chuckwalla Valley Road Bridge over Acari Ditch [Br. No. 56C0108, FPN BRLO-5956(225)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS	RATE	AMOUNT	
James J. Lu	Senior Project Manager	2	@ \$83.25	\$166.50	
Quyet T. Nguyen	Senior Bridge Engineer	4	@ \$57.50	\$230.00	
Steve Hosford	Senior Roadway Engineer	4	@ \$57.25	\$229.00	
Lynn Odgiiv	Design Engineer III	1	@ \$44.60	\$44.60	
Justin Nguyen	Design Engineer I		@ \$36.00	\$36.00	
Nan Li	Senior CADD Technician	2	@ \$35.00	\$70.00	
Hui-Min Huang	Project Controller		@ \$54.50	\$54.50	
		<b>TOTAL HOURS</b>	<b>13</b>	<b>TOTAL DIRECT LABOR</b>	<b>\$740.10</b>

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$33.93
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$409.00
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$862.35
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$204.54
<b>TOTAL MULTIPLIERS</b>			<b>\$1,509.82</b>

**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 (Conference Calls and Supplemental Design Surveys)		LS		
<b>TOTAL ODC'S</b>				

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC'S	TOTAL
WSP   Parsons Brinckerhoff				
Applied Earthwork				
ICF Jones & Stokes				
Aguilar Consulting, Inc. (ACI)				
Group Delta Consultants				
CASC Engineering and Consulting	\$109.00	\$218.12		\$327.12
KOA Corporation	\$140.00	\$267.31		\$407.31
Overland, Pacific & Cutler				
<b>TOTAL SUBCONSULTANT SERVICES</b>				<b>\$734.43</b>

**TOTAL \$2,984.35**

**FEE PROPOSAL WORKSHEET**

COMPANY: <b>CNS Engineers, Inc.</b>	SCOPE OF WORK: <b>Design Construction Supports</b>	PHASE: <b>Phase IV</b>
PROJECT: <b>Replacement of Chuckwalla Valley Road Bridge over Acari Ditch [Br. No. 56C0108, FPN BRLO-5956(225)]</b>		DATE: <b>September 14, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS		RATE	AMOUNT
James J. Lu	Senior Project Manager	9	@	\$83.25	\$749.25
Quyet T. Nguyen	Senior Bridge Engineer	20	@	\$57.50	\$1,150.00
Steve Hosford	Senior Roadway Engineer	17	@	\$57.25	\$973.25
Lynn Odgiv	Design Engineer III	21	@	\$44.60	\$936.60
Justin Nguyen	Design Engineer I			\$36.00	
Nan Li	Senior CADD Technician	20	@	\$35.00	\$700.00
Hui-Min Huang	Project Controller	2	@	\$54.50	\$109.00
		<b>TOTAL HOURS</b>			<b>\$4,618.10</b>

TOTAL HOURS: 89      TOTAL DIRECT LABOR: \$4,618.10

**MULTIPLIERS**

ESCALATION @	4.585%	(of Direct Labor)	\$211.74
FRINGE BENEFIT @	52.84%	(of Direct Labor + Escalation)	\$2,552.09
GENERAL AND ADMINISTRATIVE OVERHEAD @	111.41%	(of Direct Labor + Escalation)	\$5,380.92
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead)	\$1,276.29
<b>TOTAL MULTIPLIERS</b>			<b>\$9,421.04</b>

**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 (Conference Calls and Supplemental Design Surveys)		LS		

TOTAL ODC'S

**SUB CONSULTANT SERVICES**

COMPANY	LABOR	MULTIPLIERS	ODC's	TOTAL
WSP   Parsons Brinckerhoff				
Applied Earthwork				
ICF Jones & Stokes				
Aguilar Consulting, Inc. (ACI)				
Group Delta Consultants				
CASC Engineering and Consulting	\$218.00	\$436.24		\$654.24
KOA Corporation	\$278.00	\$530.80		\$808.80
Overland, Pacific & Cutler				
<b>TOTAL SUBCONSULTANT SERVICES</b>				<b>\$1,463.04</b>

**TOTAL \$15,502.18**



**MANHOURLY WORKSHEET**

COMPANY: CNS Engineers, Inc.      SCOPE OF WORK: Manhour Summary  
 PROJECT: Replacement of Chuckwalla Valley Road Bridge over Acari Ditch [Br. No. 56C0108, FPN BRLO-5956(225)]      PHASE: All Phases      DATE: September 14, 2017

TASK	SENIOR PROJECT MANAGER	SENIOR BRIDGE ENGINEER	SENIOR ROADWAY ENGINEER	DESIGN ENGINEER III	DESIGN ENGINEER I	SENIOR CAD TECHNICIAN	PROJECT CONTROLLER	HOURS	(Top & Bottom) HOURS
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	\$253.08	\$174.80	\$174.04	\$135.59	\$109.44	\$106.40	\$165.68		
<b>PHASE TOTALS</b>	<b>151</b>	<b>171</b>	<b>260</b>	<b>314</b>	<b>182</b>	<b>444</b>	<b>10</b>	<b>1,532</b>	<b>1,532</b>
PHASE I	72	31	121	24	92	4	4	344	344
PHASE II	68	116	118	158	330	4	4	1,086	1,086
PHASE III	2	4	4	1	2			13	13
PHASE IV	9	20	17	21	20	2	2	89	89

TASK									HOURS
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<b>PHASE TOTALS</b>									
PHASE I									
PHASE II									
PHASE III									
PHASE IV									











**SUBCONSULTANT FEE PROPOSAL WORKSHEET**

COMPANY: <b>WSP   Parsons Brinckerhoff</b>	SCOPE OF WORK: <b>Environmental</b>	PHASE: <b>All Phases</b>
PROJECT: <b>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)]</b>		DATE: <b>March 27, 2017</b>

**DIRECT LABOR**

PERSONNEL	POSITION	HOURS	RATE	AMOUNT
Lorraine Ahlquist	Project Manager/Environmental Lead	688	@ \$80.93	\$55,679.84
Larissa Kling Rawlins	Lead Planner	324	@ \$55.71	\$18,050.04
Debra Meier	Senior Planner	897	@ \$71.45	\$64,090.65
Maisoon Afaneh	Project Planner	960	@ \$48.00	\$46,080.00
Ivy Edmonds - Hess	Lead Planner		\$62.37	
David VanGoethem	Senior Engineer	47	@ \$66.58	\$3,129.26
Hollis Lawrence	Archeologist	158	@ \$38.18	\$6,032.44
Jeff Howard	Senior Planner	66	@ \$82.47	\$5,443.02
Cynthia Cavazos	Project Accountant	90	@ \$44.03	\$3,962.70
Theresa Dickerson	Senior Planner	60	@ \$55.50	\$3,330.00
Lesley Mauer	Environmental Analyst / Planner	53	@ \$36.06	\$1,911.18
Micheal Lieu	Environmental Analyst / Planner	61	@ \$40.47	\$2,468.67
Edward Tadross	Lead Planner	5	@ \$56.83	\$284.15
Douglas Villars	Senior Technical Specialist	174	@ \$44.36	\$7,718.64
<b>TOTAL HOURS</b>		<b>3,583</b>	<b>TOTAL DIRECT LABOR</b>	<b>\$218,180.59</b>

**MULTIPLIERS**

ESCALATION @	2.50%	(of Direct Labor)	\$5,454.51
FRINGE BENEFIT @	33.53%	(of Direct Labor + Escalation)	\$74,984.85
GENERAL AND ADMINISTRATIVE OVERHEAD @	119.85%	(of Direct Labor + Escalation)	\$268,026.67
PROFIT (FIXED FEE) @	10.0%	(of Direct Labor + Escalation + Overhead + Payroll Additives)	\$56,664.66
<b>TOTAL MULTIPLIERS</b>			<b>\$405,130.70</b>

**OTHER DIRECT COSTS**

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

ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
Reproduction	1	LS	@ \$3,048.60	\$3,048.60
Mailing and Special Delivery	1	LS	@ \$3,133.20	\$3,133.20
Mileage and Travel	1	LS	@ \$13,482.00	\$13,482.00
Miscellaneous (Record Searches)	1	LS	@ \$18,000.00	\$18,000.00
<b>TOTAL ODC'S</b>				<b>\$37,663.80</b>

**TOTAL** **\$660,975.09**

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

Consultant WSP Parsons Brinckerhoff 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
\$218,180	3583	=	\$60.89	Year 1 Avg Hourly Rate

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

	Avg Hourly Rate		Proposed Escalation		
Year 1	\$60.89	+	2.5%	=	\$62.42
					Year 2 Avg Hourly Rate
Year 2	\$62.42	+	2.5%	=	\$63.98
					Year 3 Avg Hourly Rate
Year 3	\$63.98	+	2.5%	=	\$65.58
					Year 4 Avg Hourly Rate
Year 4	\$65.58	+	2.5%	=	\$67.21
					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	35.00%	*	3583.0	=	1254.1	Estimated Hours Year 1
Year 2	40.00%	*	3583.0	=	1433.2	Estimated Hours Year 2
Year 3	15.00%	*	3583.0	=	537.5	Estimated Hours Year 3
Year 4	10.00%	*	3583.0	=	358.3	Estimated Hours Year 4
Year 5	0.00%	*	3583.0	=	0.0	Estimated Hours Year 5
Total	100%		Total	=	3583.0	

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

	Avg Hourly Rate (calculated above)		Estimated hours (calculated above)		Cost per Year	
Year 1	\$60.89	*	1254	=	\$76,363.00	Estimated Hours Year 1
Year 2	\$62.42	*	1433	=	\$89,453.80	Estimated Hours Year 2
Year 3	\$63.98	*	537	=	\$34,383.80	Estimated Hours Year 3
Year 4	\$65.58	*	358	=	\$23,495.60	Estimated Hours Year 4
Year 5	\$67.21	*	0	=	\$0.00	Estimated Hours Year 5
	Total Direct Labor Cost with Escalation			=	\$223,696.20	
	Direct Labor Subtotal before Escalation			=	\$218,180.00	
	Estimated total of Direct Labor Salary Increase (Dollar Amount)			=	\$5,516.20	Transfer to Cost Proposal
	Estimated total of Direct Labor Salary Increase (%)			=	2.53%	Transfer to Cost Proposal

**(2.5% is proposed.)**

**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: 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	10080	\$403.20
8.5"X11" COLOR	\$0.25	2400	\$600.00
11"X17" B/W	\$0.09	1020	\$91.80
11"X17" COLOR	\$0.29	540	\$156.60
24"X36" B/W	\$8.00	150	\$1,200.00
24"X36" COLOR	\$10.00	54	\$540.00
30"X42" B/W	\$12.00	0	\$0.00
30"X42" COLOR	\$15.00	0	\$0.00
BINDERS (3-RING)	\$4.00	6	\$24.00
TAB	\$2.75	12	\$33.00
<b>SUBTOTAL COST</b>			<b>\$3,048.60</b>
Mailing and Special Delivery Cost Breakdown			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Priority Mail	\$6.65	408	\$2,713.20
FedEx	\$35.00	12	\$420.00
	\$0.00	0	\$0.00
<b>SUBTOTAL COST</b>			<b>\$3,133.20</b>
Mileage & Travel			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
Mileage (2017 IRS Standard Rate)	\$0.535	25200	\$13,482.00
	\$0.00	0	\$0.00
<b>TOTAL BUDGET</b>			<b>\$13,482.00</b>
Miscellaneous			
DESCRIPTION OF ITEMS	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
EDR	\$3,000.00	6	\$18,000.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
	\$0.00	0	\$0.00
<b>SUBTOTAL COST</b>			<b>\$18,000.00</b>
<b>TOTAL ODCs</b>			<b>\$37,663.80</b>

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.





