

#### SUBMITTAL TO THE BOARD OF SUPERVISORS COUNTY OF RIVERSIDE, STATE OF CALIFORNIA



FROM: TLMA - Transportation Department

May 6, 2010

Amendment No. 2 to the Engineering Services Agreement for the Van Buren

Bridge Replacement.

**RECOMMENDED MOTION**: That the Board of Supervisors:

- 1. Approve Amendment No. 2 to the Engineering Services Agreement between the County of Riverside and Dokken Engineering, and;
- 2. Authorize the Chairman to execute the same.

BACKGROUND: The existing Van Buren Bridges were constructed in 1939 (southbound) and in 1958 (northbound) spanning the main waterway. These bridges were extended in length in 1971 to span the entire flood plain. In 1997, the State Department of Transportation evaluated the bridges for seismic safety. The initial recommendation was to retrofit the existing bridges.

> Juan C. Perez Director of Transportation

(Continued On Attached Page) **Current F.Y. Total Cost:** In Current Year Budget: \$ 166,410 Yes **FINANCIAL Current F.Y. Net County Cost: Budget Adjustment:** \$0 No DATA **Annual Net County Cost:** \$0 For Fiscal Year: 2009/2010 SOURCE OF FUNDS: Federal HBP (Seismic Safety Retrofit) (85.46%), Prop. **Positions To Be Deleted Per A-30** 1B (Local Bridge Seismic Retrofit Account) (7.33%), Measure A/Western (7.21%)Requires 4/5 Vote **C.E.O. RECOMMENDATION: APPROVE County Executive Office Signature** 

Policy Policy  $\boxtimes$ X Consent

Consent 

Dep't Recomm.: Exec. Ofc.:

Prev. Agn. Ref. 09/02/08, 3.155, 04/10/01, 3.31

District: 2

Agenda Number:

3.6

The Honorable Board of Supervisors

RE: Amendment No. 2 to the Engineering Services Agreement for the Van Buren Bridge Replacement.

May 6, 2010

Page 2 of 2

However, a subsequent assessment of the bridge site for liquefaction concluded that the total replacement of the bridges would be the most feasible and prudent retrofit strategy. On April 10, 2001, the Board of Supervisors executed an agreement with Dokken Engineering to provide environmental and design engineering services to replace the existing parallel bridges carrying Van Buren Boulevard over the Santa Ana River. The new bridges are designed to meet the current seismic design criteria. The bridges are being constructed wide enough to accommodate three lanes in each direction in the future, a separated sidewalk for pedestrians and eight feet wide shoulders to accommodate bicycles.

The engineering services agreement with the design consultant was first amended on September 2, 2008 to address the scope changes due to a continuously evolving regulatory process for an approved environmental document, to perform a Value Engineering Analysis, and to add the design surveys, right of way engineering, and pot holing into the consultant's scope of work due to limited in-house staff availability at the time. Amendment No. 2 is necessary due to:

- Modifications to construction staging, utility, landscaping, and construction area access
  plans that were necessary as a result of changes to the construction schedule of the City
  of Riverside's projects at Jurupa Avenue and Van Buren Boulevard.
- Addition of a retaining wall to eliminate right of way impacts on the City of Riverside's Water Quality Treatment Plant facility.
- Significant variation in soil type required a change in foundation type for the new bridge.
   The change to large diameter cast in drilled hole piles requires closer supervision and design support during construction.
- Increase in the level of construction support to County's resident engineer. County is
  performing the construction management work in-house to eliminate the need for a
  major construction management consultant contract.

Consultant's negotiated cost proposal to address these scope changes and for modifying the construction documents is \$166,410.

#### **Recommended Contract Budget**

Current Contract Amount: \$1,615.833.43

Recommended Amendment 2: \$166,410.00

Total Contract Amount: \$1,782,243.43

Project No. B0-0801

#### Van Buren Bridge Replacement Project

## 

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#### **AMENDMENT 2**

#### **AMENDMENT TO AGREEMENT BETWEEN**

#### THE COUNTY OF RIVERSIDE AND DOKKEN ENGINEERING

#### FOR ENGINEERING SERVICES ON VAN BUREN BRIDGE REPLACEMENT PROJECT

THIS AMENDMENT (hereinafter the "Amendment") to an agreement is made and entered into as of this \_\_\_\_\_\_\_

day of \_\_\_\_\_\_, 2009, by and between the County of Riverside, a political subdivision of the State of California (hereinafter the "COUNTY"), and DOKKEN ENGINEERING (hereinafter "ENGINEER").

#### **RECITALS**

- A. COUNTY and ENGINEER have entered in an agreement entitled "Engineering Services Agreement for Van Buren Bridge Replacement between County of Riverside Transportation Department and Dokken Engineering" that is dated April 10, 2001 (hereinafter the "Agreement"). The Agreement provides the terms and conditions, scope of work, schedule and budget for the performance of professional and technical services necessary to prepare an environmental document, plans, specifications and estimates to replace the existing bridges on Van Buren Boulevard at Santa Ana River. The COUNTY and the ENGINEER amended the original agreement on September 2, 2008, Amendment 1, to modify the scope of work and to increase the budget for Phases I and II.
- B. The parties desire to amend the Agreement as amended on September 2, 2008 to extend the expiration date, modify the scope of services to be provided by the ENGINEER and increase the contract budget.

#### **AGREEMENT**

- NOW, THEREFORE, in consideration of the mutual covenants hereinafter contained, the parties agree as follows:
- 1. The current contract budget of \$1,615,833.43 shall be increased by \$166,410.00 to \$1,782,243.43 as provided below:
  - Increase the Phase II budget by the amount of \$60,000.00 for the preparation of Plans,
     Specifications, and Estimates (PS&E).
  - Increase the Phase IV budget by the amount of \$106,410.00 for the Construction Support.

These scope and budget modifications became necessary to address the coordination needs with the adjacent public projects in development and to eliminate the right of way impacts on the City of Riverside facilities bordering the bridge project near Jurupa Avenue Intersection. Also, detailed studies of the site soils showed significant variation in soil profile. The foundation type for the new bridges has been changed to

large diameter Cast in Drilled Hole piles (CIDH piles) to properly address these conditions. CIDH piles require closer supervision and design support during construction. Detailed descriptions of the extra work and the summaries of the requested and recommended budget adjustments are provided in attachment "A" of this Amendment.

- The existing Engineering Services Agreement as amended on September 2, 2008 expires on October 28, 2011. The Agreement term shall be extended by one year. All covenants set forth in the Agreement and as modified in this Amendment shall be completed by October 28, 2012.
- Except to the extent specifically modified or amended hereunder, all of the terms, covenants and conditions of the Agreement as amended last on September 2, 2008 shall remain in full force and effect between the parties hereto.

IN WITNESS HEREOF, the parties hereto have caused this Amendment to the Agreement to be duly executed this day and year first written above.

1	APPROVALS	
2	COUNTY Approvals	ENGINEER Approvals
3	RECOMMENDED FOR APPROVAL:	ENGINEER:
4		
5		
6	Dated: 4/19/10	Russer T. Liptal
7	JUAN C. PEREZ	PRINTED NAME
8	Director of Transportation	President
9		
10	APPROVED AS TO FORM:	ENGINEER:
11		
12	April Departy Dated: 4/29/10	Clicky Chan Dated: 1115/05
14	Marsha L. Victor PAMELA J. WALLS	Cathy Chan
15	County Counsel	PRINTED NAME  OCICE FOR CLA
16		TITLE
17	APPROVAL BY THE BOARD OF SUPERVISORS	
18		
19		· · · · · · · · · · · · · · · · · · ·
20	Dated:	
21	PRINTED NAME	
22	Chairman, Riverside County Board of Supervisors	
23		
24	ATTEST:	
25		
26		
27	Dated:	
28	KECIA HARPER-IHEM	
29	Clerk of the Board of Supervisors (SEAL)	

Engineering Services Agreement - Amendment # 2

# **ATTACHMENT A**

# AMENDMENT 2 SCOPE OF SERVICES AND FEE

VAN BUREN BRIDGES AT SANTA ANA RIVER BRIDGE REPLACEMENT PROJECT

Mr. Tayfun Saglam, P.E. Project Manager Riverside County Transportation Department 14<sup>th</sup> Street Transportation Annex 3525 14<sup>th</sup> Street Riverside, CA 92501

RE: Van Buren Bridge Replacement Contract Amendment No.2 - Request 1

Dear Mr. Saglam:

As you know, a number of minor challenges surfaced as the plans were being finalized. All of these have already been addressed, but some required Dokken Engineering to prepare products that are outside of our contractual scope. In particular:

• Revisions to Jurupa Intersection Plans – Revisions to the plans include conforms to City of Riverside plans, site visits and meetings with City and Water Treatment staff, as well as the preparation of alternatives (three exhibits) for incorporating City proposed improvements. Revisions also included modification of landscaping plans, specifications, and estimates to accommodate screening of City's Waste Water Treatment Plant. These changes were required because the City's project has been delayed and will no longer be completed when the County's project starts. Revised plans include Sheets 1, 2, 5, 10, 13, 29, 53, 56, 71, 72, 75, and 76, as well as revisions to the estimates. (Task 10.1 of Phase 2)

Requested Supplement: \$28,000

• Additional ROW Exhibits – The right of entry requirements for the project required some adjustments. Dokken Engineering prepared additional Right of Way exhibits to support the County in its efforts to finalize these agreements. (Task 2.0 of Phase 2)

Requested Supplement: \$2,000

• Retaining Wall Design – An additional retaining wall was required in order to avoid impacts to the City Waste Water Treatment Plant facilities. Plan revisions included the incorporation of drainage facilities, pavement widening, and addition of curb gutter and sidewalk. Revised plans include Sheets 2, 5, 13, 18, 31, 33, 53, 56 and new Sheet 83, as well as revisions to the specifications and estimates. (Task 10.1 of Phase 2)

Requested Supplement: \$20,000

• **PS&E Revisions for Water Treatment Plant** – Additional PS&E revisions were required to minimize impacts to the City Waste Water Treatment Plant, including alternatives to maintain safety during construction, alternative access routes during construction, details of fencing and truck routes, and modifications to the special provisions. These changes were driven by the need to avoid temporary impacts to the State Property west of Van Buren Boulevard. Revised plans include Sheets 23 and 24, as well as revisions to the specifications and estimates. (Task 10.1 of Phase 2)

Requested Supplement: \$10,000

- Construction Support The current budget for design support during construction is \$51,000. The County is requiring substantially more support during the construction of this \$22 million project. In addition to responding to all requests for information/clarification, reviewing shop drawings, and preparing the As-Built plans, Dokken Engineering will review and provide comments on submittals by the contractor when requested by the County's Resident Engineer. Dokken Engineering will also review and provide comments on:
  - Contractor proposals
  - Prestressing systems
  - Joint seal assemblies
  - Metal railing
  - Bearing pads
  - Piles and pile driving systems
  - Structural steel
  - Materials and substitution of materials

Also, Dokken Engineering will provide services for construction loading on existing structures, utility coordination, modify plans and attend field meetings, as needed.

Requested Supplement: \$89,000

#### TOTAL REQUESTED SUPPLEMENT: \$149,000

Please note that Dokken Engineering has already exhausted its contractual design support budget covering (in part) the out of scope items described in this letter.

I have prepared a detailed breakdown of this supplement request in the attached spreadsheet (based on the County's standard template) and the revised project scope. New text (including that from Addendum 1) in the scope is shown in red italics. Please call me at (916) 858-0642 if you have any questions.

Sincerely,

DOKKEN ENGINEERING

Anland Statul

Richard T. Liptak, PE Project Manager

Attach.

1215-52/RTL/JR

#### Addendum Cost Breakdown

FEE PROPOSAL SUMMARY	PHASE 1	PHASE II	PHASE NI	PHASE IV	PHASE V	TOTALS
Dokken Engineering		\$59,991.13		\$88,969.24		\$148,960.37
LSA Associates						
Psomas					-	
TOTALS		\$59,991.13		\$88,969.24		\$148,960.37

Phase I: Preliminary Engineering

Phase II: Final Design

Phase III: Construction Bidding Support

Phase IV: Construction Support

Phase V:

	SCOPE OF WORK				DATE:	REV:	
Dokken Engineering	Project Summary				11/3/2009		
ROJECT:					MILESTONE/PHASE/PI	ROJECT	SUMMARY:
Van Buren Bridge Replacement - A	Addendum No. 2				All Phases		i
DIRECT LABOR							
	FUNCTION	HOURS		RATE	AMOUNT	1	
Rick Liptak	Principal / Project Manager	60	@	\$65.00	\$3,900.00	-	
Juann Ramos	Roadway Project Engineer	267	ø	\$48.50	\$12,949.50		
Matt Salveson	Bridge Project Engleer	150	Q.	\$54.00	\$8,100.00	}	
David Vandershaf	Senior Engineer (DV)			\$48.00		•	
Martin Maechler	Senior Engineer (MM)	30	æ	\$45.00	\$1,350.00		
John Bishop	Senior Engineer (JB)			\$58.00			
Ryan Neves	Associate Engineer (RN)	159	e	\$35.00	\$5,565.00	ĺ	
Nathan Donnely	Associate Engineer (ND)			\$36.50			
Brian Stephenson	Associate Engineer (BS)			\$39.00		1	
Juan Rodriguez	Assistant Engineer (JR)	305	@	\$26.25	\$8,006.25		
Stephen Johnson	Assistant Engineer (SJ)			\$27.00			
Claudia Fletcher	Roadway Detailer (CF)	80	@	\$36.50	\$2,920.00		
Craig Hougton	Bridge Detailer (CH)	10	@	\$43.00	\$430.00	1	
Chanh Dang	Bridge Detailer (KD)	120	@	\$40.00	\$4,800.00		
Rob Lawrence	Senior Engineer (RL)			\$42.00		Į	
Michael Wilson	Geologist (MW)			\$41.00			
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ROJECT:		mar poorgr				MILESTONE/PHASE/P	ROJECT SU	MMARY:
Van Buren Bridge Replacement - A	ddendum No. 2					Phase II		
DIRECT LABOR								
PERSONNEL	FLING	TION	HOURS		RATE	AMOUNT	1	
Rick Liptak	Principal / Project		20	@	\$65.00	\$1,300.00	-	
Juann Ramos	Roadway Project	-	117	æ	\$48.50	\$5,674.50		i
Matt Salveson	Bridge Project En	•	,		\$54.00	00,071,00		
David Vandershaf	Senior Engineer (	-			\$48.00		ĺ	
Martin Maechier	Senior Engineer (		30	@	\$45.00	\$1,350.00		
John Bishop	Senior Engineer (			•	\$58.00	\$1,000.00		1
Ryan Neves	Associate Engine		159	e	\$35.00	\$5,565.00		
Nathan Donnely	Associate Engine		,03	-	\$36.50	45,505.00		
Brian Stephenson	Associate Engine				\$39.00		l	
Juan Rodriguez	Assistant Enginee		80	Ø	\$26.25	\$2,100.00		!
Stephen Johnson	Assistant Enginee		80	4	\$20.25	\$2,100.00		
Claudia Fletcher	Roadway Detailer		80			£0,000,00	ĺ	
Craig Hougton	Bridge Detailer (C		10	@ @	\$36.50 \$43.00	\$2,920.00 \$430.00		
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Rob Lawrence	Senior Engineer (F				\$40.00			
Michael Wilson	Geologist (MW)	,			\$42.00			
	Goologist (MVV)				\$41.00			
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COMPANY:	SCOPE OF WORK				DATE:	REV:	
Dokken Engineering	Construction Suppo	ort			11/3/2009		
ROJECT:					MILESTONE/PHASE/PI	ROJECT SU	MARY:
Van Buren Bridge Replacement - A	ddendum No. 2			****	Phase IV		
DIRECT LABOR							
PERSONNEL	FUNCTION	HOURS		RATE	AMOUNT	]	i i
Rick Liptak	Principal / Project Manager	40	@	\$65.00	\$2,600.00		
luann Ramos	Roadway Project Engineer	150	ø	\$48.50	\$7,275.00		
Matt Salveson David Vandershaf	Bridge Project Engieer	150	@	\$54.00	\$8,100,00		
Javio vandersnar Martin Maechler	Senior Engineer (DV)			\$48.00			
ohn Bishop	Senior Engineer (MM)			\$45.00			
Ryan Neves	Senior Engineer (JB)			\$58.00		ĺ	
lathan Donnely	Associate Engineer (RN) Associate Engineer (ND)			\$35.00			1
Irian Stephenson	Associate Engineer (BS)			\$36.50 \$39.00			
uan Rodriguez	Assistant Engineer (JR)	225	e	\$26.25	\$5,906.25		
tephen Johnson	Assistant Engineer (SJ)	225		\$20.25	\$0,900.25		
laudia Fletcher	Roadway Detailer (CF)			\$36.50		1	
raig Hougton	Bridge Detailer (CH)			\$43.00			
hanh Dang	Bridge Detailer (KD)	120	e	\$40.00	\$4,800.00		
ob Lawrence	Senior Engineer (RL)		-	\$42.00	\$ 1,000.00		
ichael Wilson	Geologist (MW)			\$41.00			
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202	7.3 Drainage Report	-												
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COMPANY: Dokken Engineering paniery:					SCOPE	SCOPE OF WORK Final Design								DATE: ######	E	HEVISION:	
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9.1 Revise 95% Submittal																	
9.2 Design Cross Sections																	
9.3 Slope Staking Notes																	
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10.1 Revise 100% Submittal	20	110		_	8		150			80		80	10				480

MANHOUR WORKSHEET																		
Dokken Engineering					<b>3</b> 0	SCOPE OF WORK Construction Support	K Support							-	DATE: REVISION: 11/3/2009	Œ	EVISION:	
PHOJECT: Van Buren Bridge Replacement - Addendum No. 2	No. 2													2	ILESTONE/P	PHASE/PROJE	CT SUMMAR	ت
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October 23, 2009

Mr. Tayfun Saglam, PE
Project Manager
Riverside County Transportation Department
14<sup>th</sup> Street Transportation Annex
3525 14<sup>th</sup> Street
Riverside, CA 92501

RE: Van Buren Bridge Replacement

**Contract Amendment No.2 - Request 2** 

Dear Mr. Saglam:

As discussed in our October 13, 2009 field meeting, County of Riverside has requested Dokken Engineering to perform field observations during drilling operations for the Van Buren Boulevard Bridge Replacement project. It is expected that Griffith Construction will complete 20 exploratory borings during a period of 20 days (one boring per day). Boring activities will be conducted over two periods. The first period includes 15 borings and the second includes the remaining 5 borings.

Dokken Engineering staff will perform inspections for the first couple rock cores and verify the minimum RQD's and establish the acceptance criteria. For the first fifteen borings, Dokken Engineering staff will provide continuous logging of the drilling and coring operations and make field determinations of the RQD's for pile tip determination. The remaining five borings will be performed at a later date.

The total cost to perform this work includes;

 Geotechnical Engineer
 20 hrs
 @ \$125.20/hour
 \$2,504

 Staff Geologist
 200 hrs
 @ \$74.53/hour
 \$14,906

**Total Addendum Request** 

\$17,410

The total cost assumes the drilling work will be completed in the twenty (20) contract days specified by Griffith Construction. If the drilling runs over the allotted 20 days, all additional supervision will be billed at time and materials basis.

Please call me if you have any questions.

Sincerely,

**DOKKEN ENGINEERING** 

Juann Ramos, P.E. Project Manager

1215-52/JR

#### Addendum Cost Breakdown

EE PROPOSAL SUMMARY						ver pe here acided place.
	PHASE 1	PHASE II	PHASE III	PHASE IV	PHASE V	TOTALS
Dokken Engineering				\$17,409.04		\$17,409.04
LSA Associates						
Psomas	· * · · · · · · · · · · · · · · · · · ·					
TOTALS				\$17,409.04		\$17,409.04

Phase I: Preliminary Engineering

Phase II: Final Design

Phase III: Construction Bidding Support

Phase IV: Construction Support

Phase V:

FEE PROPOSAL WOR	KSHEET						
Dokken Engineering		SCOPE OF WORK Project Summary			DATE: 11/3/2009	REV:	
PROJECT:	<del></del>	Project Summary			MILESTONE/PHASE/PF	ROJECT	SUMMARY:
Van Buren Bridge Replacement - A	mendment No. 2 - F	Request 2			All Phases		
DIRECT LABOR							
	FUR	ICTION	HOURS	RATE	AMOUNT	1	
Rick Liptak	Principal / Proje		1	\$65.00		ł	
Juann Ramos	Roadway Projec	-		\$48.50			
Matt Salveson	Bridge Project E	•		\$54.00			
David Vandershaf	Senior Engineer	•		\$48.00			
Martin Maechler	Senior Engineer			\$45.00			
John Bishop	Senior Engineer			\$58.00 \$58.00			
Ryan Neves	Associate Engin			\$35.00		Ì	
Nathan Donnely	Associate Engin	, ,		\$36.50			
Brian Stephenson	Associate Engin			\$39.00			
Juan Rodriguez	Assistant Engine			\$26.25			
Stephen Johnson	Assistant Engine			\$27.00			
Claudia Fletcher	Roadway Detail						
Craig Hougton				\$36.50			
Khanh Dang	Bridge Detailer ( Bridge Detailer (			\$43.00			
Rob Lawrence	Senior Engineer		20	\$40.00	40100		
Michael Wilson	Geologist (MW)		20	e \$42.00	\$840.00		
Joshua Munn				\$41.00			
Joshua Muhit	Geologist (JM)		200	<b>a</b> \$25.00	\$5,000.00		
l							
	<u> </u>	TOTAL MOURS					
		TOTAL HOURS	220	то	TAL DIRECT LABOR		\$5,840.00
MULTIPLIERS							
ESCALATION @		(Rate)					
OVERHEAD @	171.00%	(of Total Direct Labo	or + Escalation)		\$9.986.40		
PAYROLL ADDITIVES @		(of Total Direct Labo	•		00.000.70		
				T	OTAL MULTIPLIERS		\$9,986.40
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OTHER DIRECT EXPENSES	Billed at Actu      □	QUANTITY	UNIT	UNIT COST	AMOUNT		
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Geotechnical Investigations			LS	\$20,000.00			
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				TOTAL OTHER	DIRECT EXPENSES		
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SA Associates			<del>, 6 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -</del>		L <del>-iii-i</del>		
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			7.2	TOTAL C	OUTSIDE SERVICES		
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F <b>EES</b> Dutside services admin fee @	<del></del>	of Total Outside Co	nicae & Outelda Ca	vices Eccs)			
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					TOTAL FEES		\$1,582.64
					TOTAL COST		\$17,409.04

FEE PROPOSAL WORK	SCOPE OF WORK			DATE:	REV:
Dokken Engineering	Construction Supp	ort		11/3/2009	nev.
ROJECT:				MILESTONE/PHASE/P	ROJECT SUMMARY:
Van Buren Bridge Replacement - Am	endment No. 2 - Request 2			Phase IV	
DIRECT LABOR					
PERSONNEL	FUNCTION	HOURS	RATE	AMOUNT	1
Rick Liptak	Principal / Project Manager	<u> </u>	\$65.00	1	1
Juann Ramos	Roadway Project Engineer		\$48.50		
Matt Salveson	Bridge Project Engleer		\$54.00		1
David Vandershaf	Senior Engineer (DV)		\$48.00		:
Martin Maechler	Senior Engineer (MM)		\$45.00		
John Bishop	Senior Engineer (JB)		\$58.00		1
Ryan Neves	Associate Engineer (RN)		\$35.00		1
Nathan Donnely	Associate Engineer (ND)		\$36.50		
Brian Stephenson	Associate Engineer (BS)		\$39.00		;
Juan Rodriguez	Assistant Engineer (JR)		\$26.25		
Stephen Johnson	Assistant Engineer (SJ)		\$27.00		
Claudia Fletcher	Roadway Detailer (CF)		\$36.50		
Craig Hougton	Bridge Detailer (CH)		\$43.00		
Khanh Dang	Bridge Detailer (KD)		\$40.00		
Rob Lawrence	Senior Engineer (RL)	20 @		\$840.00	
Michael Wilson	Geologist (MW)		\$41.00		
Joshua Munn	Geologist (JM)	200 @	\$25.00	\$5,000.00	
	TOTAL HOURS	220	TO	TAL DIRECT LABOR	\$5,840.00
MULTIPLIERS					
ESCALATION @	(Rate)				
OVERHEAD @	171.00% (of Total Direct Labo	or + Escalation)		\$9,986.40	
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		or + Escaration)	Т	OTAL MULTIPLIERS	\$9.986.40
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ITEM  Nater Sampling	••• Billed at Actual Cost •••	UNIT	UNIT COST		\$9,986.40
ITEM Vater Sampling	••• Billed at Actual Cost •••	UNIT LS	UNIT COST   \$8,000.00		\$9,986.40
ITEM Vater Sampling	••• Billed at Actual Cost •••	UNIT LS	UNIT COST   \$8,000.00		\$9,986.40
ITEM Vater Sampling	••• Billed at Actual Cost •••	UNIT LS	UNIT COST   \$8,000.00		\$9,986.40
ITEM Vater Sampling	••• Billed at Actual Cost •••	UNIT LS	UNIT COST   \$8,000.00		\$9,986.40
ITEM  Nater Sampling	••• Billed at Actual Cost •••	UNIT LS	UNIT COST   \$8,000.00		\$9,986.40
ITEM  Nater Sampling	••• Billed at Actual Cost •••	UNIT LS	UNIT COST   \$8,000.00		\$9,986.40
ITEM Vater Sampling	••• Billed at Actual Cost •••	UNIT LS	UNIT COST   \$8,000.00		\$9.986.40
ITEM Water Sampling	••• Billed at Actual Cost •••	UNIT LS	UNIT COST   \$8,000.00		\$9.986.40
ITEM  Nater Sampling	••• Billed at Actual Cost •••	UNIT LS	UNIT COST   \$8,000.00		\$9,986.40
ITEM  Nater Sampling	••• Billed at Actual Cost •••	UNIT LS	\$8,000.00 \$20,000.00	AMOUNT	\$9.986.40
ITEM  Nater Sampling  Geotechnical Investigations	••• Billed at Actual Cost •••	UNIT LS	\$8,000.00 \$20,000.00		\$9.986.40
ITEM Water Sampling Geotechnical Investigations  PUTSIDE SERVICES (w/o fee)	••• Billed at Actual Cost •••	UNIT LS	\$8,000.00 \$20,000.00	AMOUNT	\$9.986.40
ITEM  Nater Sampling  Geotechnical Investigations	••• Billed at Actual Cost •••	UNIT LS	\$8,000.00 \$20,000.00	AMOUNT	\$9.986.40
ITEM Water Sampling Geotechnical Investigations  PUTSIDE SERVICES (w/o fee)	••• Billed at Actual Cost •••  QUANTITY	UNIT LS LS	\$8,000.00 \$20,000.00	AMOUNT  DIRECT EXPENSES	\$9,986.40
Nater Sampling Geotechnical Investigations  PUTSIDE SERVICES (w/o fee)  COMPANY SA Associates	••• Billed at Actual Cost •••  QUANTITY	UNIT LS LS	\$8,000.00 \$20,000.00	AMOUNT  DIRECT EXPENSES	\$9,986.40
Vater Sampling Seotechnical Investigations  UTSIDE SERVICES (W/o fee)  COMPANY  SA Associates	••• Billed at Actual Cost •••  QUANTITY	UNIT LS LS	\$8,000.00 \$20,000.00	AMOUNT  DIRECT EXPENSES	\$9,986.40
Nater Sampling Seotechnical Investigations  PUTSIDE SERVICES (w/o fee)  COMPANY  SA Associates	••• Billed at Actual Cost •••  QUANTITY	UNIT LS LS	\$8,000.00 \$20,000.00	AMOUNT  DIRECT EXPENSES	\$9,986.40
Vater Sampling Seotechnical Investigations  UTSIDE SERVICES (W/o fee)  COMPANY  SA Associates	••• Billed at Actual Cost •••  QUANTITY	UNIT LS LS	\$8,000.00 \$20,000.00	AMOUNT  DIRECT EXPENSES	\$9.986.40
Vater Sampling Seotechnical Investigations  UTSIDE SERVICES (W/o fee)  COMPANY  SA Associates	••• Billed at Actual Cost •••  QUANTITY	UNIT LS LS	\$8,000.00 \$20,000.00	AMOUNT  DIRECT EXPENSES	\$9.986.40
Nater Sampling Seotechnical Investigations  PUTSIDE SERVICES (w/o fee)  COMPANY  SA Associates	••• Billed at Actual Cost •••  QUANTITY	UNIT LS LS	UNIT COST \$8,000.00 \$20,000.00  TOTAL OTHER I	DIRECT EXPENSES	\$9.986.40
Nater Sampling Seotechnical Investigations  PUTSIDE SERVICES (w/o fee)  COMPANY  SA Associates	••• Billed at Actual Cost •••  QUANTITY	UNIT LS LS	UNIT COST \$8,000.00 \$20,000.00  TOTAL OTHER I	AMOUNT  DIRECT EXPENSES	\$9.986.40
Nater Sampling Seotechnical Investigations  PUTSIDE SERVICES (w/o fee)  COMPANY  SA Associates somas	••• Billed at Actual Cost •••  QUANTITY	UNIT LS LS	UNIT COST \$8,000.00 \$20,000.00  TOTAL OTHER I	DIRECT EXPENSES	\$9.986.40
Vater Sampling Seotechnical Investigations  PUTSIDE SERVICES (w/o fee)  COMPANY  SA Associates somas	Billed at Actual Cost QUANTITY  LABOR	UNIT LS LS	UNIT COST	DIRECT EXPENSES	\$9.986.40
Nater Sampling Seotechnical Investigations  PUTSIDE SERVICES (w/o fee)  COMPANY  SA Associates  Somas  EES  UTSIDE SERVICES ADMIN FEE @	PROPERTY OF TOTAL OUTSIDE SET	UNIT LS LS MULTIPLIER	UNIT COST	DIRECT EXPENSES TOTAL  UTSIDE SERVICES	\$9.986.40
Vater Sampling Seotechnical Investigations  PUTSIDE SERVICES (w/o fee)  COMPANY  SA Associates Somas  EES  UTSIDE SERVICES ADMIN FEE @  OKKEN ENGINEERING @	GUANTITY  LABOR  (of Total Outside Set	UNIT LS LS LS  MULTIPLIER  rvices & Outside Servi	TOTAL OTHER I	DIRECT EXPENSES	\$9.986.40
UTSIDE SERVICES (w/o fee) COMPANY SA ASSOCIATES SOMAS  EES UTSIDE SERVICES ADMIN FEE @ DKKEN ENGINEERING @	PROPERTY OF TOTAL OUTSIDE SET	UNIT LS LS LS  MULTIPLIER  rvices & Outside Servi	TOTAL OTHER I	DIRECT EXPENSES  TOTAL  UTSIDE SERVICES  \$1,582.64	
Water Sampling Geotechnical Investigations  DUTSIDE SERVICES (w/o fee)	GUANTITY  LABOR  (of Total Outside Set	UNIT LS LS LS  MULTIPLIER  rvices & Outside Servi	TOTAL OTHER I	DIRECT EXPENSES TOTAL  UTSIDE SERVICES	\$9,986.40

MANHOUR WORKSHEET COMPANY:					SCOPE OF WORK	¥								DATE	ű	- NOCEDAN	
Dokken Engineering PROJECT: Van Buren Bridge Replacement - Amendment	nendment No. 8	No. 2 - Request 2											2	1/3/2009	ASE/PROJE	SUMMARY:	
Dokken Engineering Summary													-	Project Summary			
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Phase 1 Subtotal			-	00.00	00.848	00.000	130.50	\$36.00	\$26.28	\$27.00	436.80	643.00	\$40.00	342.00	341.00	\$26.00	
Phase 2 Subtotal																	
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