

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



FROM: TLMA - Transportation Department

SUBMITTAL DATE: 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) In Current Year Budget: **Current F.Y. Total Cost:** \$ 166,410 **FINANCIAL Budget Adjustment: Current F.Y. Net County Cost:** \$ 0 DATA For Fiscal Year: \$0 2009/2010 **Annual Net County Cost:** 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 AWestern Requires 4/5 Vote (7.21%)C.E.O. RECOMMENDATION: **APPROVE** 

**County Executive Office Signature** 

## MINUTES OF THE BOARD OF SUPERVISORS

Tina Grande

On motion of Supervisor Buster, seconded by Supervisor Stone and duly carried by unanimous vote, IT WAS ORDERED that the above matter is approved as recommended.

Ayes:

Buster, Tavaglione, Stone, Benoit and Ashley

Nays:

None

Kecia Harper-Ihem

Absent:

None

Clerk of the Board

Date:

May 18, 2010

XC:

Transp.

04/10/01, 3.31

Prev. Agn. Ref. 09/02/08, 3.155,

District: 2

Agenda Number:

3 69

Departmental Concurrence

Policy

Consent

Jep't Recomm.:

Policy

X

Consent

Exec. Ofc.:

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

#### **AMENDMENT 2**

#### AMENDMENT TO AGREEMENT BETWEEN

#### THE COUNTY OF RIVERSIDE AND DOKKEN ENGINEERING

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

#### **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.

- 2. 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.

# Van Buren Bridge Replacement Project

**APPROVALS** 1 2 **COUNTY** Approvals **ENGINEER:** RECOMMENDED FOR APPROVAL: 3 4 5 Dated: 4/19/10 6 JUAN C. PEREZ 7 **Director of Transportation** 8 9 **ENGINEER:** APPROVED AS TO FORM: 10 11 12 13 PAMELA J. WALLS 14 15 **County Counsel** 16 APPROVAL BY THE BOARD OF SUPERVISORS 17 18 19 Alelenated: MAY 1 8 2010 MARION ASHLEY 21 Chairman, Riverside County Board of Supervisors 22 23 ATTEST: 24 25 26 27 KECIA HARPER-IHEM 28 Clerk of the Board of Supervisors (SEAL) 29

Engineering Services Agreement - Amendment # 2

**ENGINEER** Approvals

ARD T. LIPTAK

# **ATTACHMENT A**

# AMENDMENT 2 SCOPE OF SERVICES AND FEE

VAN BUREN BRIDGES AT SANTA ANA RIVER BRIDGE REPLACEMENT PROJECT

February 25, 2010

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

Mr. Tayfun Saglam, P.E. February 25, 2010 Page 2

- 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** 

Islands. Statul

Richard T. Liptak, PE Project Manager

Attach.

1215-52/RTL/JR

## Addendum Cost Breakdown

|                    | PHASE 1 | PHASE II    | PHASE III | PHASE IV    | PHASE V | TOTAL8      |
|--------------------|---------|-------------|-----------|-------------|---------|-------------|
| Dokken Engineering |         | \$59,991 13 |           | \$88,969.24 |         | \$148,960,0 |
| LSA Associates     |         |             |           |             |         |             |
| Psomas             |         |             |           |             |         |             |
|                    |         |             |           |             |         |             |
|                    |         |             |           |             |         |             |
|                    |         |             |           |             |         |             |
|                    |         |             |           |             |         |             |
| TOTALS             |         | \$59,991.13 |           | \$88,969.24 |         | \$148,960.3 |

Phase I: Preliminary Engineering

Phase III: Final Design
Phase III: Construction Bidding Support

Phase IV: Construction Support

Phase V:

| Dokken Engineering  | SCOPE OF WOR   | K   |          |                           | DATE:                    | REV:           |
|---|--|---|----------|---------------------------|--------------------------|----------------|
| 0   | Project Summa  | гу  |          |                           | 11/3/2009                |                |
| ROJECT:   | Add  |   |          |                           | MILESTONE/PHASE/P        | ROJECT SUMMARY |
| Van Buren Bridge Replacement - A  | Addendum No. 2   |   |          |                           | All Phases               |                |
| DIRECT LABOR  |  |   |          |                           |                          |                |
|   | FUNCTION   | HOURS   |          | RATE                      | AMOUNT                   | 1              |
| Rick Liptak   | Principal / Project Manager  | 60  | e        | \$65.00                   | \$3.900.00               | 1              |
| Juann Ramos   | Roadway Project Engineer   | 267   | @        | \$48.50                   | \$12,949.50              |                |
| Matt Salveson   | Bridge Project Engieer   | 150   | 3        | \$54.00                   | \$8.100.00               |                |
| David Vandershaf  | Senior Engineer (DV)   |   |          | \$48.00                   |                          | 1              |
| Martin Maechier   | Senior Engineer (MM)   | 30  | æ        | \$45.00                   | \$1,350,00               |                |
| John Bishop<br>Ryan Neves   | Senior Engineer (JB)   |   |          | \$58.00                   |                          |                |
| Nathan Donnely  | Associate Engineer (RN) Associate Engineer (ND)                    | 159   | @        | \$35.00                   | \$5,565,00               |                |
| Brian Stephenson  | Associate Engineer (ND) Associate Engineer (BS)                    |   |          | \$36.50                   |                          |                |
| Juan Rodriguez  | Assistant Engineer (JR)  | 305   |          | \$39.00                   | 20 000 05                |                |
| Stephen Johnson   | Assistant Engineer (SJ)  | 305   | g        | \$26.25<br>\$27.00        | \$8,006,25               |                |
| Claudia Fletcher  | Roadway Detailer (CF)  | 80  | æ        | \$36.50                   | 20,000,00                |                |
| Craig Hougton   | Bridge Detailer (CH)   | 10  | <b>@</b> | \$43.00                   | \$2,920.00<br>\$430.00   |                |
| Khanh Dang  | Bridge Detailer (KD)   | 120   | e        | \$40.00                   | \$4,800.00               |                |
| Rob Lawrence  | Senior Engineer (RL)   |   | -        | \$42.00                   | \$ <del>-1</del> ,000.00 |                |
| Michael Wilson  | Geologist (MW)   |   |          | \$41.00                   |                          |                |
|   |  |   |          |                           |                          |                |
|   |  |   |          |                           |                          |                |
|   |  |   |          |                           |                          |                |
|   | TOTAL HOUF   | IS 1181   | J        | тот                       | AL DIRECT LABOR          | \$48,020       |
| MULTIPLIERS   |  |   |          |                           |                          |                |
| SCALATION @   | (Rate)   |   |          |                           |                          |                |
| OVERHEAD @  | 13.50% (of Total Direct Li   | abor + Escalation)  |          |                           | \$6,482.80               |                |
| PAYROLL ADDITIVES @   | 168.50% (of Total Direct La  | abor + Escalation)  |          |                           | \$80,914.96              |                |
|   |  |   |          | TC                        | OTAL MULTIPLIERS         | \$87,397       |
|   | Pilled Ast - LO  |   |          |                           |                          |                |
| THEO DIDECT EVDENCES  |  |   |          |                           |                          |                |
|   | → Billed at Actual Cost →  | LINE  |          | LINUT COOT                | 4140100                  |                |
| ITEM  | QUANTITY   | UNIT  |          | UNIT COST                 | AMOUNT                   |                |
| OTHER DIRECT EXPENSES  ITEM  Water Sampling Geolechnical Investigations   |  | LS<br>LS  |          | \$8,000.00<br>\$20,000.00 | AMOUNT                   |                |
| Vater Sampling  |  | LS  | •        | \$8,000.00<br>\$20,000.00 | AMOUNT  IRECT EXPENSES   |                |
| Vater Sampling Geotechnical Investigations  |  | LS  | •        | \$8,000.00<br>\$20,000.00 |                          |                |
| Vater Sampling  |  | LS  | 1        | \$8,000.00<br>\$20,000.00 |                          |                |
| Water Sampling Geotechnical Investigations  DUTSIDE SERVICES (w/o fee)  COMPANY  SA Associates  | QUANTITY   | LS<br>LS  | 1        | \$8,000.00<br>\$20,000.00 | IRECT EXPENSES           |                |
| Vater Sampling Geotechnical Investigations  PUTSIDE SERVICES (w/o fee) COMPANY  | QUANTITY   | LS<br>LS  | 1        | \$8,000.00<br>\$20,000.00 | IRECT EXPENSES           |                |
| Vater Sampling leotechnical Investigations  UTSIDE SERVICES (w/o fee)  COMPANY  SA Associates somas   | QUANTITY   | LS<br>LS  | 1        | \$8,000.00<br>\$20,000.00 | IRECT EXPENSES           |                |
| Vater Sampling Seotechnical Investigations  UTSIDE SERVICES (W/o fee)  COMPANY  SA Associates   | LABOR  | LS<br>LS  | 1        | \$8,000.00<br>\$20,000.00 | IRECT EXPENSES           |                |
| Vater Sampling Geotechnical Investigations  UTSIDE SERVICES (w/o fee)  COMPANY  SA Associates Sormas  EES  UTSIDE SERVICES ADMIN FEE @                      | LABOR  (of Total Outside S   | LS<br>LS<br>MULTIPLIER  | T        | \$8,000.00<br>\$20,000.00 | TOTAL  ITSIDE SERVICES   |                |
| Vater Sampling Seotechnical Investigations  UTSIDE SERVICES (w/o fee)  COMPANY  SA Associates Sornas  | LABOR  | LS LS  MULTIPLIER  MULTIPLIER  Dervices & Outside S  Door + Total Multipliers | T I      | \$8,000.00<br>\$20,000.00 | IRECT EXPENSES           |                |
| Vater Sampling Seotechnical Investigations  UTSIDE SERVICES (w/o fee)  COMPANY  SA Associates Sornas  EES  UTSIDE SERVICES ADMIN FEE @  DKKEN ENGINEERING @ | QUANTITY  LABOR  (of Total Outside S  010.00% (of Total Direct Lab | LS LS  MULTIPLIER  MULTIPLIER  Dervices & Outside S  Door + Total Multipliers | T I      | \$8,000.00<br>\$20,000.00 | TOTAL  ITSIDE SERVICES   | \$13,541.8     |

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|--|--|-----------|------------------------------|---------------------------------------|--|---|----------------|
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| John Bishop         Senior           Ryan Neves         Assoc           Nathan Donnely         Assoc           Brian Stephenson         Assoc           Juan Rodriguez         Assist           Stephen Johnson         Assist           Claudia Fletcher         Road           Graip Hougton         Bridge           Khanh Dang         Bridge           Rob Lawrence         Senior  | or Engineer (JB) clate Engineer (RN) clate Engineer (ND) clate Engineer (RS) dant Engineer (JR) dant Engineer (SJ) way Detailer (CF) c Detailer (CH) c Detailer (KD) or Engineer (RL)  |           | 159<br>80<br>80              | €                                     | \$58.00<br>\$35.00<br>\$36.50<br>\$39.00<br>\$26.25  | \$5.565.00  | e e            |
| Nathan Donnely Assoc Brian Stephenson Assoc Juan Rodriguez Assist Stephen Johnson Assist Claudia Fletcher Roadv Craig Hougton Bridge Khanh Dang Bridge Rob Lawrence Senior   | ciate Engineer (ND) ciate Engineer (BS) tant Engineer (JR) tant Engineer (SJ) way Detailer (CF) te Detailer (CH) te Detailer (KD) tr Engineer (RL)   |           | 80                           | œ                                     | \$35,00<br>\$36,50<br>\$39,00<br>\$26,25   |   |                |
| Brian Stephenson Assoc<br>Juan Rodriguez Assist<br>Stephen Johnson Assist<br>Claudia Fletcher Roadv<br>Craig Hougton Bridge<br>Khanh Dang Bridge<br>Rob Lawrence Senior  | ciate Engineer (BS)  tant Engineer (JR)  tant Engineer (SJ)  way Detailer (CF)  to Detailer (CH)  to Detailer (KD)  r Engineer (RL)  |           | 80                           | œ                                     | \$36,50<br>\$39,00<br>\$26,25  |   |                |
| Juan Rodriguez         Assist           Stephen Johnson         Assist           Claudia Fletcher         Roadv           Craig Hougton         Bridge           Khanh Dang         Bridge           Rob Lawrence         Senior   | tant Engineer (JR)<br>lant Engineer (SJ)<br>way Detailer (CF)<br>e Detailer (CH)<br>e Detailer (KD)<br>r Engineer (RL)   |           | 80                           |                                       | \$39,00<br>\$26.25   |   |                |
| Stephen Johnson         Assist           Claudia Fletcher         Roadv           Craig Hougton         Bridge           Khanh Dang         Bridge           Rob Lawrence         Senior   | lant Engineer (SJ) way Detailer (CF) e Detailer (CH) e Detailer (KD) r Engineer (RL)   |           | 80                           |                                       | \$26.25  | 1   |                |
| Claudia Fletcher         Roadw           Craig Hougton         Bridge           Khanh Dang         Bridge           Rob Lawrence         Senior  | way Detailer (CF)<br>e Detailer (CH)<br>e Detailer (KD)<br>r Éngineer (RL)   |           |                              | æ                                     |  | \$2 100.00  |                |
| Craig Hougton Bridge Khanh Dang Bridge Rob Lawrence Senior   | e Detailer (CH)<br>e Detailer (KD)<br>r Engineer (RL)  |           |                              | @                                     | \$27 00  |   |                |
| Khanh Dang Bridge Rob Lawrence Senior  | e Detailer (KD)<br>r Engineer (RL)   |           | 10                           |                                       | \$36.50  | \$2,920.00  |                |
| Rob Lawrence Senior  | r Engineer (RL)  |           |                              | 8                                     | \$43,00  | \$430.00  | A .            |
| 200  |  |           |                              |                                       | \$40.00  |   |                |
| Michael Wilson Geolo   | gist (MW)  |           |                              |                                       | \$42,00  | - 1   |                |
|  |  |           |                              |                                       | \$41.00  | 1   |                |
|  |  |           |                              |                                       |  |   |                |
|  | TOTAL HOUR   | s         | 496                          |                                       | тот  | AL DIRECT LABOR   | \$19,339.      |
| MULTIPLIERS  |  |           |                              |                                       |  | ()  |                |
| SCALATION @  | (Rate)   |           |                              |                                       |  |   |                |
| OVERHEAD @   |  | bor . Es  | nolotian)                    |                                       |  |   |                |
|  | 13.50% (of Total Direct La<br>168.50% (of Total Direct La  |           |                              |                                       |  | \$2 610 83  |                |
|  | The state of the s | DOI 1 LO  | cuidoni                      |                                       |  | S32,587.06<br>OTAL MULTIPLIERS  | \$35,197.6     |
| ITEM   | ed at Actual Cost •••  QUANTITY  |           | UNIT                         | UI                                    | NIT COST   | AMOUNT  |                |
| Vater Sampling   |  |           | LS<br>LS                     |                                       | \$8,000,00<br>\$20,000.00  |   |                |
|  |  |           |                              |                                       |  |   |                |
| UTSIDE SERVICES (w/o fee)  |  |           |                              | то                                    | TAL OTHER DI   | RECT EXPENSES   |                |
| COMPANY  | LABOR  | MU        | LTIPLIER                     | EX                                    | (PENSES  | TOTAL   |                |
| SA Associates  |  |           |                              |                                       |  |   |                |
|  |  |           |                              |                                       |  |   |                |
| somas  |  |           |                              |                                       |  |   |                |
|  |  |           |                              |                                       | TOTAL OUT  | TSIDE SERVICES  |                |
| ES   | (of Total Oulside Si   | ervices & | Outside Serv                 | ices Fee                              | ( <u>0</u>   | TSIDE SERVICES  |                |
| ES<br>UTSIDE SERVICES ADMIN FEE @  |  |           |                              | rices Fee                             | ( <u>0</u>   |   |                |
| ES<br>JTSIDE SERVICES ADMIN FEE @<br>OKKEN ENGINEERING @   | 0.00% (of Total Direct Lab   | or + Tota | l Multipliers)               |                                       | es)  | TSIDE SERVICES  |                |
| JTSIDE SERVICES ADMIN FEE @  |  | or + Tota | l Multipliers)               |                                       | es)  |   | \$5,453.74     |

| Doken Engineering   |  | SCOPE OF WOR                         | RK   |     |                           | DATE:                           | REV;          |
|---|--|--------------------------------------|--|-----|---------------------------|---------------------------------|---------------|
| Van Buren Bildge Replacement - Addendum No. 2   Philad IV   |  | Construction S                       | upport   |     |                           | 1                               |               |
| DIRECT LABOR  |  | A                                    |  |     |                           | 1                               | ROJECT SUMMAR |
| PERBONNEL   | van buren Bridge Heplacement   | Addendum No. 2                       |  |     |                           | Phase IV                        |               |
| Principal / Project Manager   | DIRECT LABOR   |                                      |  |     |                           |                                 |               |
| Risk Lipids   | PERSONNEL  | FUNCTION                             | HOURS  |     | RATE                      | AMOUNT                          | 1             |
| Juann Ramos   |  | Principal / Project Manager          | 40   | ଡ   |                           |                                 |               |
| Matt Salveson   | Juann Ramos  | Roadway Project Engineer             | 150  | æ   | \$48.50                   | \$7,275.00                      |               |
| Martin Maechier   Senior Engineer (MM)   S45.00   |  | Bridge Project Engleer               | 150  | 2   | \$54.00                   |                                 |               |
| John Bishop   Senior Engineer (I/B)   S68 00   S68 00   S68 00   S68 00   S68 00   S69 00                                |  | Senior Engineer (DV)                 |  |     | \$48,00                   |                                 |               |
| Ryan Neves  | The state of the s |                                      |  |     | \$45.00                   |                                 |               |
| Nathan Donnely  |  |                                      |  |     | \$58.00                   |                                 |               |
| Bilan Stephenson  |  | . ,                                  |  |     | \$35,00                   |                                 |               |
| Juan Rodriguez   Assistant Engineer (JR)   225  | - 100 March 1971   |                                      |  |     | \$36.50                   |                                 |               |
| Signature   Sign                              |  |                                      |  |     | \$39.00                   |                                 |               |
| Claudia Fleicher Roadway Detailer (CF) \$36.50 Craig Houglon Bridge Detailer (CH) \$43.00 Khanh Dang Bridge Detailer (KD) 120 & \$40.00 Rob Lawrence Senior Engineer (RL) \$42.00 Michael Wilson Geologist (MW) \$41.00  TOTAL HOURS 685 TOTAL DIRECT LABOR \$28,681  MULTIPLIERS SSCALATION ® (Rate)  DVERHEAD @ 13.50% (of Total Direct Labor + Escalation) \$3.871.97 PAYROLL ADDITIVES ® 168.50% (of Total Direct Labor + Escalation) \$48,327.91  TOTAL MULTIPLIERS STOTAL MULTIPLIERS \$52.199  TOTAL OTHER DIRECT EXPENSES LS \$8,000.00  LS \$8,000.00  LS \$8,000.00  TOTAL OTHER DIRECT EXPENSES   |  |                                      | 225  | @   | \$26.25                   | \$5,906.25                      |               |
| State   Stat                              |  |                                      |  |     | \$27,00                   |                                 |               |
| Multipliers   Serior Engineer (RL)   120  |  |                                      |  |     |                           |                                 |               |
| TOTAL HOURS 585 TOTAL DIRECT LABOR \$28,681  WULTIPLIERS  SECALATION © (Rate)  VERHEAD © 13,50% (of Total Direct Labor + Escalation) 548,327,91  PAYROLL ADDITIVES © 188,50% (of Total Direct Labor + Escalation) 548,327,91  TOTAL MULTIPLIERS  STOTAL MULTIPLIERS 552,199  OTHER DIRECT EXPENSES *** Billed at Actual Cost ***  TEM QUANTITY UNIT UNIT COST AMOUNT  Vales Sampling LS \$8,000,00  LS \$8,000,00  LS \$20,000,00  TOTAL OTHER DIRECT EXPENSES  TOTAL OTHER DIRECT EXPENSES  UTSIDE SERVICES (w/o fee)  COMPANY LABOR MULTIPLIER EXPENSES TOTAL   |  |                                      |  |     |                           |                                 |               |
| TOTAL HOURS 685 TOTAL DIRECT LABOR \$28,681  MULTIPLIERS  SECALATION © (Rate)  DVERHEAD © 13,50% (of Total Direct Labor + Escalation) \$3,871,97 (AVROLL ADDITIVES © 168,50% (of Total Direct Labor + Escalation) \$48,327,91 (AVROLL ADDITIVES © 168,50% (of Total Direct Labor + Escalation) \$48,327,91 (AVROLL ADDITIVES © 168,50% (of Total Direct Labor + Escalation) \$48,327,91 (AVROLL ADDITIVES © 168,50% (of Total Direct Labor + Escalation) \$48,327,91 (AVROLL ADDITIVES © 168,50% (of Total Direct Labor + Escalation) \$48,327,91 (AVROLL ADDITIVES © 168,50% (of Total Direct Labor + Escalation) \$48,327,91 (AVROLL ADDITIVES © 168,50% (of Total Direct Labor + Escalation) \$48,327,91 (AVROLL ADDITIVES © 168,50% (of Total Direct Labor + Escalation) \$48,327,91 (AVROLL ADDITIVES © 168,50% (of Total Direct Labor + Escalation) \$48,327,91 (AVROLL ADDITIVES © 168,50% (of Total Direct Labor + Escalation) \$48,327,91 (AVROLL ADDITIVES © 168,50% (of Total Direct Labor + Escalation) \$48,327,91 (AVROLL ADDITIVES © 168,50% (of Total Direct Labor + Escalation) \$48,327,91 (AVROLL ADDITIVES © 168,50% (of Total Direct Labor + Escalation) \$48,327,91 (AVROLL ADDITIVES © 169,50% (of Total Direct Labor + Escalation) \$48,327,91 (AVROLL ADDITIVES © 169,50% (of Total Direct Labor + Escalation) \$48,327,91 (AVROLL ADDITIVES © 169,50% (of Total Direct Labor + Escalation) \$48,327,91 (AVROLL ADDITIVES © 169,50% (of Total Direct Labor + Escalation) \$48,327,91 (AVROLL ADDITIVES © 169,50% (of Total Direct Labor + Escalation) \$48,327,91 (AVROLL ADDITIVES © 169,50% (of Total Direct Labor + Escalation) \$48,327,91 (AVROLL ADDITIVES © 169,50% (of Total Direct Labor + Escalation) \$48,327,91 (AVROLL ADDITIVES © 169,50% (of Total Direct Labor + Escalation) \$48,327,91 (AVROLL ADDITIVES © 169,50% (of Total Direct Labor + Escalation) \$48,327,91 (AVROLL ADDITIVES © 169,50% (of Total Direct Labor + Escalation) \$48,327,91 (AVROLL ADDITIVES © 169,50% (of Total Direct Labor + Escalation) \$48,327,91 (AVROLL ADDITIVES © 169,50% (of Total Direct Labor + Escalation) \$48,327,91 (AV |  |                                      | 120  | 3   |                           | \$4,800.00                      |               |
| TOTAL HOURS   |  |                                      |  |     |                           |                                 |               |
| MULTIPLIERS  ESCALATION ® (Rate)  DVERHEAD ® 13.50% (of Total Direct Labor + Escalation) \$3.871.97   PAYROLL ADDITIVES ® 169.50% (of Total Direct Labor + Escalation) \$48,327.91   TOTAL MULTIPLIERS \$52.199  DTHER DIRECT EXPENSES *** Billed at Actual Cost ***  TEM QUANTITY UNIT UNIT COST AMOUNT  Valet Sampling LS \$8,000.00   Sectechnical Investigations LS \$20,000.00  TOTAL OTHER DIRECT EXPENSES  UTSIDE SERVICES (W/o fee)  LABOR MULTIPLIER EXPENSES TOTAL  | WILLIAM VALISON  | Geologisi (MW)                       |  |     | \$41.00                   |                                 |               |
| MULTIPLIERS  ESCALATION ® (Rate)  DVERHEAD ® 13.50% (of Total Direct Labor + Escalation) \$3.871.97   PAYROLL ADDITIVES ® 169.50% (of Total Direct Labor + Escalation) \$48,327.91   TOTAL MULTIPLIERS \$52.199  DTHER DIRECT EXPENSES *** Billed at Actual Cost ***  TEM QUANTITY UNIT UNIT COST AMOUNT  Valet Sampling LS \$8,000.00   Sectechnical Investigations LS \$20,000.00  TOTAL OTHER DIRECT EXPENSES  UTSIDE SERVICES (W/o fee)  LABOR MULTIPLIER EXPENSES TOTAL  |  |                                      |  |     |                           |                                 |               |
| AULTIPLIERS  SSCALATION © (Rate)  DVERHEAD © 13.50% (of Total Direct Labor + Escalation) \$3.871.97   PAYROLL ADDITIVES © 168.50% (of Total Direct Labor + Escalation) \$48,327.91   TOTAL MULTIPLIERS \$52.199  DTHER DIRECT EXPENSES *** Billed at Actual Cost ***  TEM QUANTITY UNIT UNIT COST AMOUNT  Vales Sampling LS \$8,000.00   sectechnical investigations LS \$20,000.00  TOTAL OTHER DIRECT EXPENSES  UTSIDE SERVICES (W/o fee)  LABOR MULTIPLIER EXPENSES TOTAL  |  |                                      |  |     |                           |                                 |               |
| AULTIPLIERS  SSCALATION © (Rate)  DVERHEAD © 13.50% (of Total Direct Labor + Escalation) \$3.871.97   PAYROLL ADDITIVES © 168.50% (of Total Direct Labor + Escalation) \$48,327.91   TOTAL MULTIPLIERS \$52.199  DTHER DIRECT EXPENSES *** Billed at Actual Cost ***  TEM QUANTITY UNIT UNIT COST AMOUNT  Vales Sampling LS \$8,000.00   sectechnical investigations LS \$20,000.00  TOTAL OTHER DIRECT EXPENSES  UTSIDE SERVICES (W/o fee)  LABOR MULTIPLIER EXPENSES TOTAL  |  | TOTAL HOUS                           | RS 685   | 1   |                           | AL DIDECT LABOR                 | 400.00        |
| AYROLL ADDITIVES ## 13.50% (of Total Direct Labor + Escalation)   | II II TIDI IEDO  | TOTALLIOO                            | 003  | 1   | 10.                       | AL DIRECT LABOR [               | \$28,681      |
| TOTAL ADDITIVES @ 168.50% (of Total Direct Labor + Escalation)  S48,327.91  TOTAL MULTIPLIERS  S52.199  THER DIRECT EXPENSES Billed at Actual Cost  ITEM QUANTITY UNIT UNIT COST AMOUNT  Vater Sampling LS \$8,000.00  ectechnical Investigations LS \$20,000,00  TOTAL OTHER DIRECT EXPENSES  |  | (Rate)                               |  |     |                           |                                 |               |
| TOTAL MULTIPLIERS  *** Billed at Actual Cost ***  ITEM QUANTITY UNIT UNIT COST AMOUNT  Vater Sampling  LS \$8,000.00  LS \$20,000.00  TOTAL OTHER DIRECT EXPENSES  *** DIVIDING TOTAL MULTIPLIERS  *** TOTAL OTHER DIRECT EXPENSES  *** DIVIDING TOTAL MULTIPLIERS  *** DIVIDING TOTAL MULTIPLIERS  *** DIVIDING TOTAL OTHER DIRECT EXPENSES  *** DIVIDING TOTAL OTHER DIRECT EX                          | OVERHEAD @   | 13.50% (of Total Direct I            | abor + Escalation)   |     |                           | £2 874 07                       |               |
| TOTAL MULTIPLIERS  S52.199  OTHER DIRECT EXPENSES  ITEM  QUANTITY  UNIT  UNIT COST  AMOUNT  LS  S8,000.00  LS  S20,000.00  TOTAL OTHER DIRECT EXPENSES  UTSIDE SERVICES (w/o fee)  COMPANY  LABOR  MULTIPLIER  EXPENSES  TOTAL  TOTAL MULTIPLIERS  \$52.199   | PAYROLL ADDITIVES @  |                                      |  |     |                           |                                 |               |
| TOTAL OTHER DIRECT EXPENSES  TOTAL OTHER DIRECT EXPENSES  TOTAL OTHER DIRECT EXPENSES  LABOR MULTIPLIER EXPENSES  TOTAL   |  |                                      |  |     | TO                        |                                 | eso 100       |
| Valer Sampling  LS \$8,000,00  LS \$20,000,00  TOTAL OTHER DIRECT EXPENSES  UTSIDE SERVICES (W/o fee)  COMPANY  LABOR  MULTIPLIER  EXPENSES  TOTAL  |  |                                      |  |     |                           |                                 |               |
| TOTAL OTHER DIRECT EXPENSES  UTSIDE SERVICES (w/o fee)  COMPANY LABOR MULTIPLIER EXPENSES TOTAL   |  | Billed at Actual Cost                |  |     |                           |                                 |               |
| TOTAL OTHER DIRECT EXPENSES  UTSIDE SERVICES (w/o fee)  COMPANY LABOR MULTIPLIER EXPENSES TOTAL   | ITEM   |                                      | _  |     |                           | AMOUNT                          |               |
| UTSIDE SERVICES (w/o fee)  COMPANY LABOR MULTIPLIER EXPENSES TOTAL  | Vater Sampling   |                                      | LS   |     | \$8,000.00                | TNUOMA                          |               |
| COMPANY LABOR MULTIPLIER EXPENSES TOTAL   | Vater Sampling   |                                      | LS   |     | \$8,000.00                | AMOUNT                          |               |
|   | Vater Sampling<br>Seatechnical Investigations  |                                      | LS   |     | \$8,000,00<br>\$20,000,00 |                                 |               |
|   | ITEM Nate: Sampling Sectechnical Investigations  | QUANTITY                             | LS<br>LS   |     | \$8,000,00<br>\$20,000,00 | RECT EXPENSES                   |               |
| somas   | Nate: Sampling Sectechnical Investigations  UTSIDE SERVICES (w/o fee)  | QUANTITY                             | LS<br>LS   |     | \$8,000,00<br>\$20,000,00 | RECT EXPENSES                   |               |
| Psomas  |  |                                      | LS   |     | \$8,000,00<br>\$20,000,00 |                                 |               |
|   | Nate: Sampling Sectechnical Investigations  UTSIDE SERVICES (w/o fee)  COMPANY  SA Associates  | QUANTITY                             | LS<br>LS   |     | \$8,000,00<br>\$20,000,00 | RECT EXPENSES                   |               |
| TOTAL OUTSIDE SERVICES  | UTSIDE SERVICES (w/o fee)  COMPANY  A Associates  COMPANS  | QUANTITY                             | LS<br>LS   |     | \$8,000,00<br>\$20,000.00 | TOTAL                           |               |
| ES .  | UTSIDE SERVICES (w/o fee)  COMPANY  A Associates  comas  | LABOR                                | LS<br>LS   |     | \$8,000,00 \$20,000,00    | TOTAL                           |               |
| ES  JTSIDE SERVICES ADMIN FEE   (of Total Outside Services & Outside Services Fees)   | UTSIDE SERVICES (w/o fee)  COMPANY  A Associates  comas  | LABOR  (of Total Outside S           | LS LS MULTIPLIER   |     | \$8,000,00 \$20,000,00    | TOTAL                           |               |
| ITSIDE SERVICES ADMIN FEE ② (of Total Outside Services & Outside Services Fees)  OKKEN ENGINEERING ② 10.00% (of Total Direct Labor + Total Multipliers) \$5,088.11  | UTSIDE SERVICES (W/o fee) COMPANY A Associates omas  ES UTSIDE SERVICES ADMIN FEE @ OKKEN ENGINEERING @  | CUANTITY  LABOR  (of Total Outside S | MULTIPLIER  Services & Outside S | - I | \$8,000,00 \$20,000,00    | TOTAL TSIDE SERVICES            |               |
| ITSIDE SERVICES ADMIN FEE (a) (of Total Outside Services & Outside Services Fees)  OKKEN ENGINEERING (a) 10,00% (of Total Direct Labor + Total Multipliers) \$8,088 11  ITSIDE SERVICES (a) 10,00% (of Total Labor + Total Multiplier for Outside Services)   | UTSIDE SERVICES (W/o fee) COMPANY A Associates omas  ES UTSIDE SERVICES ADMIN FEE @ OKKEN ENGINEERING @  | CUANTITY  LABOR  (of Total Outside S | MULTIPLIER  Services & Outside S | - I | \$8,000,00 \$20,000,00    | TOTAL TSIDE SERVICES \$8,088.11 |               |
| UTSIDE SERVICES ADMIN FEE (a) (of Total Outside Services & Outside Services Fees)  OKKEN ENGINEERING (a) 10.00% (of Total Direct Labor + Total Multipliers) \$8,088.11  UTSIDE SERVICES (a) 10.00% (of Total Labor + Total Multiplier for Outside Services)   | UTSIDE SERVICES (w/o fee)  COMPANY  SA Associates somas  EES  UTSIDE SERVICES ADMIN FEE @  DKKEN ENGINEERING @   | CUANTITY  LABOR  (of Total Outside S | MULTIPLIER  Services & Outside S | - I | \$8,000,00 \$20,000,00    | TOTAL TSIDE SERVICES \$8,088.11 | \$8,088.1     |

| Part   State   Part     |                            |               |        |         |              |         | SCOPE OF WORK  | ×           |         |          |        |        |     |     | 3      | TEL             | HEWSTON      |            |
|--|----------------------------|---------------|--------|---------|--------------|---------|--|-------------|---------|----------|--------|--------|-----|-----|--------|-----------------|--------------|------------|
| The color of the   | an Buren Bridge Replacemen | 11 - Addendum | No. 2  |         |              |         |  |             |         |          |        |        |     |     | 2 2    | ESTONE/HASE/PRO | JECT SUMMARY |            |
| State  | okken Engineering Summa    |               |        |         |              |         |  |             |         |          |        |        |     |     |        |                 |              |            |
| Secretaria   200   117   200   119   200   201   | ¥                          | [1]           | [1]    | 1       | Light market |         | 15   | Control III | A       |          | 12019  |        | 000 | Ca. | 100    | 2               |              | AP.        |
| Substitution   20   117   120   12   |                            | 1981 00       | 277    | 154.00  | 141.00       | \$45.00 | 150.00   | 00'98:0     | \$36.50 | \$180,00 | 626.26 | 007224 | ┨   | Н   | 040.00 | 342.00          |              |            |
| Substitution   20   117   118   11   | nase 1 Subtotal            |               |        |         |              |         |  |             |         |          |        |        |     |     |        |                 |              |            |
| Substitute   Sub   | nase z subtotal            | 20            | 117    |         |              | 8       |  | 159         |         |          | 80     |        | 90  | 10  |        |                 |              | 496        |
| 150    | hase 3 Subtotal            |               |        |         |              |         |  |             |         |          |        |        |     |     |        |                 |              |            |
| Totals   Sign   150   305   150   305   150      | nase 4 Subtotal            | 40            | 150    | 150     |              |         |  |             |         |          | 225    |        |     | -   | 120    |                 |              | 480        |
| Totals   Summary   | ase 5 Subtotal             |               |        |         |              |         |  |             |         |          |        |        |     |     |        | -               |              |            |
| Anticology Science Sci | Totals                     |               | 267    | 150     |              | 30      |  | 159         |         |          | 305    |        | 08  | 9   | 120    |                 | ]            | 1          |
| The state of the s | Associates Summary         |               |        |         |              |         |  |             |         |          |        |        |     |     |        |                 |              |            |
| Throatey    Throatey   |                            | 111           | 308    | 11      | I            | No.     | 1  | 1           | H       |          | E SIV  |        |     |     |        |                 |              | MODE WAS A |
| With the control of t |                            | 17500         | 120.00 | 500.003 | 120.00       | 123.00  | \$25.00  | \$28.00     | 824.00  |          |        |        |     |     |        |                 |              |            |
| With the first the first that the first the fi |                            |               |        |         |              |         |  |             |         |          |        |        |     |     |        | -               |              |            |
| The state of the s | has Summary                |               |        |         |              |         |  |             |         |          |        |        |     |     |        |                 |              | I          |
|  |                            | *****         | 1      | -       | 1000         | 1       |  |             |         |          |        | 27     |     |     |        |                 |              |            |
|  |                            |               | 13KII  | stuts   | 1 1          | 827.78  |  |             |         |          |        |        |     |     |        |                 |              | 200        |
|  |                            |               |        |         |              |         |  |             |         |          |        |        |     |     |        |                 |              |            |
|  | mmary                      |               |        |         |              |         |  |             |         |          |        |        |     |     |        |                 |              |            |
|  |                            |               |        |         |              |         |  |             |         |          |        |        |     |     |        |                 |              | TOTA       |
|  |                            |               | ľ      |         | Ī            | Ī       |  |             |         |          |        |        |     |     |        |                 |              |            |
|  |                            |               |        |         |              |         |  |             |         |          |        |        |     |     |        |                 |              |            |
|  | птагу                      |               |        |         |              |         |  |             |         |          |        |        |     |     |        |                 |              |            |
|  |                            |               |        | 200     |              |         |  |             |         |          |        |        |     |     |        |                 |              | TOTAL      |
|  |                            |               |        |         |              |         |  |             |         | -        | ŀ      |        |     | -   | -      | -               |              |            |
|  | птвгу                      |               |        |         |              |         |  |             |         |          | 1      |        |     | 1   |        |                 |              |            |
|  |                            |               |        |         |              |         |  | B Wash      |         |          |        |        |     |     |        |                 |              | TOTA       |
|  |                            |               |        |         |              |         |  |             |         | -        |        | -      | -   | 1   | 1      |                 |              |            |
|  |                            |               |        |         |              |         |  |             |         | 1        | -      |        | -   | -   | -      |                 |              |            |
|  |                            |               |        |         |              |         | TO THE OWNER OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OW | S COMMON    | 0.00000 | 1000000  | 3      |        |     |     |        |                 | İ            |            |
|  |                            |               |        |         | 8            |         |  |             |         |          |        |        |     |     |        |                 |              | TOTAL      |
|  |                            |               |        |         |              |         |  |             |         |          |        |        | -   |     | -      | -               | Ī            |            |

| Dokken Engineering                            |                      |     |             |       | Score or work  | ×   |                     |    |     |      |          | DATE:    |                                  | HEVISION: |       |
|---|----------------------|-----|-------------|-------|--|-----|---------------------|----|-----|------|----------|----------|----------------------------------|-----------|-------|
| Van Buren Bridge Replacement - Addendum No. 2 |                      |     |             |       |  |     |                     |    |     |      |          | MILESTON | MILESTONE/PHASE/PROJECT SUMMARY: | ECT SUMMA | ;;    |
| 200   | Pilingsof / Property |     | 10011       | Benta |  |     |                     |    |     |      | A. Santa | 1 600    | rnasez                           |           | AL S  |
|   | 100                  |     | England (D) | 1     | Chicago in the Control of the Contro |     | Comment of the last | -  | - C | - CO | 50       |          | ļį                               |           | TOTAL |
| Total Manhours                                | 20 1                 | 117 |             | 30    |  | 159 |                     | 90 |     | 80   | 10       |          |                                  |           | 496   |
| TASK 1 PROJECT MANAGEMENT                     |                      |     |             |       |  |     |                     |    |     |      |          |          |                                  |           | L     |
| 1,1 Team Medings                              |                      |     |             |       |  |     |                     |    |     |      | -        |          |                                  |           |       |
| 1.2 QA/QC                                     |                      |     |             |       |  |     |                     |    |     |      |          |          |                                  |           |       |
| TASK 2 FINAL RIGHT-OF-WAY                     |                      |     |             |       |  |     |                     |    |     |      |          | -        |                                  |           |       |
| 2.1 Final ROW                                 |                      | 7   |             |       |  | 6   |                     |    |     |      |          |          |                                  |           |       |
| TASK 3 UTILITY COORIDINATION                  |                      |     |             |       |  |     |                     |    |     |      |          |          |                                  |           |       |
| 3.1 Utility Coordination                      |                      |     |             |       |  |     |                     |    |     |      |          |          |                                  |           |       |
| TASK 4 GEOTECHNICAL DESIGN REPORT             |                      |     |             |       |  |     |                     |    |     | -    |          |          |                                  |           |       |
| 4,1 Geotechincal Desing Report                |                      |     |             |       |  |     |                     |    |     |      |          |          |                                  |           |       |
| TASK 5 FOUNDATION REPORT                      |                      |     |             |       |  |     |                     |    |     |      |          |          |                                  |           |       |
| 5.1 Foundation Report                         |                      |     |             |       |  |     |                     |    |     |      |          |          |                                  |           |       |
| TASK 6 35% SUBMITTAL                          |                      |     |             |       |  |     |                     |    |     |      |          |          |                                  |           |       |
| 3.1 Plans                                     |                      |     |             |       |  |     |                     |    |     |      | -        |          |                                  |           |       |
| 6,2 Preliminary Estimate                      |                      |     |             |       |  |     |                     |    |     |      | -        |          |                                  |           |       |
| TASK 7 65% SUBMITTAL                          |                      |     |             |       |  |     |                     |    |     |      |          |          |                                  |           |       |
| 7.1 Revise 35% Submittal                      |                      |     |             |       |  |     |                     |    |     |      |          |          |                                  |           |       |
| 7.2 Plans                                     |                      |     |             |       |  |     |                     |    |     |      | -        |          |                                  |           |       |
| 7.3 Drainage Report                           |                      |     |             |       |  |     |                     |    |     |      |          |          |                                  |           |       |
| 7.4 Special Provisions                        |                      |     |             |       |  |     |                     |    |     |      |          | -        |                                  |           |       |
| 7,5 Structural Calculations                   |                      |     |             |       |  |     |                     |    |     |      |          |          |                                  |           |       |
| 7.6 Engineer's Estimate of Cost               |                      |     |             |       |  |     |                     |    |     |      |          |          |                                  |           |       |
| TASK 8 95% SUBMITTAL                          |                      |     |             |       |  |     |                     |    |     |      |          |          |                                  |           |       |
| 8.1 Revise 55% Submittal                      |                      |     |             |       |  |     |                     |    |     |      | -        |          |                                  |           |       |
| 8,2 Bridge Check Calculations                 |                      |     |             |       |  |     |                     |    |     |      | -        |          |                                  |           |       |
|   |                      |     |             |       |  |     |                     |    |     |      |          |          |                                  |           |       |

| COMPAYY: Dokken Engineering PROJECT:          |    |     |     |   | w III | Scope of WORK<br>Final Design | ž _ |                            |   |    |   |    |    | [ <u>a</u> # | DATE:<br>###### | Œ   | REVISION: |       |
|---|----|-----|-----|---|-------|-------------------------------|-----|----------------------------|---|----|---|----|----|--------------|-----------------|---|-----------|-------|
| Van Buren Bridge Replacement - Addendum No. 2 |    |     |     |   |       |                               |     |                            |   |    |   |    |    | 2            | ILESTONE/PH     | MILESTONE/PHASE/PROJECT SUMMARY:<br>Phase 2 | T SUMMARY | z.    |
| •   | 1  | [1] | 111 | 1 | 1/1   | ij                            | 1   | American<br>Engineer (160) | 1 | 1  | 1 | li | 1  | ij           | 11              | i in  |           | TOTAL |
| 9.1 Revise 95% Submittal                      |    |     |     |   |       |                               |     |                            |   |    |   |    |    |              |                 |   |           |       |
| 9.2 Design Cross Sections                     |    |     |     |   |       |                               |     |                            |   |    |   |    | T  |              |                 |   | Ī         |       |
| 9.3 Slope Staking Notes                       |    |     |     |   |       |                               |     |                            |   |    |   |    |    |              |                 |   |           |       |
| TASK 10 FINAL APPROVED SUBMITTAL              |    |     |     |   |       |                               |     |                            |   |    |   |    | 1  |              |                 |   |           |       |
| 10.1 Revise 100% Submittal                    | 20 | 110 |     |   | 30    |                               | 150 |                            |   | 80 |   | 98 | 10 |              |                 |   |           | 480   |
|   |    |     |     |   |       |                               |     |                            |   |    |   |    |    |              |                 |   | Ī         |       |
|   |    |     |     |   |       |                               |     |                            |   |    |   |    |    |              |                 |   |           |       |
|   |    |     |     |   | _     |                               |     |                            |   |    | _ |    | -  |              |                 |   | =         |       |

| MANHOUR WORKSHEET                             |                        |     |     |             |    |               |           |   |     |  |            |   |     |                       |                 |           |  | ı     |
|---|------------------------|-----|-----|-------------|----|---------------|-----------|---|-----|--|------------|---|-----|-----------------------|-----------------|-----------|--|-------|
| Dokked Engineering                            |                        |     |     |             |    | SCOPE OF WORK | JRK       |   |     |  |            |   |     | 2                     | DATE: REVISION: | REN       | TSION:   |       |
| PROJECT:                                      |                        |     |     |             |    | Constructio   | n Support |   |     |  |            |   |     |                       | 1/3/2009        |           |  |       |
| Van Buren Bridge Replacement - Addendum No. 2 | No. 2                  |     |     |             |    |               |           |   |     |  |            |   |     | 2                     | ILESTONE/PHA    | Phase 4   | SUMMARY  |       |
| TABK  | Principal  <br>Propert | 111 |     | Engine (OV) | Ma | ij            | 110       | 1 | 100 | Casalon Casalo | Months (%) | 5 | 100 | Probjec Decision (CO) | 0               | Geologist |  | TOTAL |
| Total Manhours                                | 40                     | 150 | 150 |             |    |               |           |   |     | 225  |            |   |     | 120                   |                 |           |  | 989   |
| TASK 1 CONSTRUCTION SUPPORT                   |                        |     |     |             |    |               |           |   |     |  |            |   |     |                       |                 |           |  |       |
| 1.1 Construction Support                      | 40                     | 150 | 150 |             |    |               |           |   |     | 225  |            |   |     | 120                   |                 |           |  | 685   |
|   |                        |     |     |             |    |               |           |   |     |  |            |   |     |                       |                 |           |  |       |
|   |                        |     |     |             |    |               |           |   |     |  |            |   |     |                       |                 |           |  |       |
|   |                        |     |     |             |    |               |           |   |     |  |            |   |     |                       |                 |           |  |       |
|   |                        |     |     |             |    |               |           |   |     |  |            |   |     |                       |                 |           |  |       |
|   |                        |     |     |             |    |               |           |   |     |  |            |   |     |                       |                 |           | T  |       |
|   |                        |     |     |             |    |               |           |   |     |  |            |   |     |                       |                 |           |  |       |
|   |                        |     |     |             |    |               |           |   |     |  |            |   |     |                       |                 |           |  |       |
|   |                        |     |     |             |    |               |           |   |     |  |            |   |     |                       |                 |           | 1  |       |
|   |                        |     |     |             |    |               |           |   |     |  |            |   |     |                       |                 |           |  |       |
|   |                        |     |     |             |    |               |           |   |     |  |            |   |     |                       |                 |           |  |       |
|   |                        |     |     |             |    |               |           |   |     |  |            |   |     |                       |                 |           | İ  |       |
|   |                        |     |     |             |    |               |           |   |     |  |            |   |     |                       |                 |           |  |       |
|   |                        |     |     |             |    |               |           |   |     |  |            |   |     |                       |                 |           |  |       |
|   |                        |     |     |             |    |               |           |   |     |  |            |   |     |                       |                 |           |  |       |
|   |                        |     |     |             |    |               |           |   |     |  |            |   |     |                       |                 |           | T  |       |
|   |                        |     |     |             |    |               |           |   |     |  |            |   |     |                       |                 |           |  |       |
|   |                        |     |     |             |    |               |           |   |     |  |            |   |     |                       |                 |           |  |       |
|   |                        |     |     |             |    |               |           |   |     |  |            |   |     |                       |                 |           | <del>                                     </del> |       |
|   |                        |     |     |             |    |               |           |   |     |  |            |   |     |                       |                 |           |  |       |
|   |                        |     |     |             |    |               |           |   |     |  |            |   |     |                       |                 |           |  |       |
|   |                        |     |     |             |    |               |           |   |     |  |            |   |     |                       |                 |           |  |       |
|   |                        |     |     |             |    |               |           |   |     |  |            |   |     |                       |                 |           |  |       |
|   |                        |     |     |             |    |               |           |   |     |  |            |   | 1   |                       | 1               | 1         | 1  | 7     |

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

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.

\$17,410

Please call me if you have any questions.

Sincerely,

DOKKEN ENGINEERING

Juann Ramos, P.E. Project Manager

1215-52/JR

## Addendum Cost Breakdown

|                    | PHASE 1 | PHASE II | PHASE III | PHASE IV    | PHASE V | TOTALS      |
|--------------------|---------|----------|-----------|-------------|---------|-------------|
| Dokken Engineering |         |          |           | \$17,409.04 |         | \$17,409.0  |
| LSA Associates     |         |          |           |             |         |             |
| Psomas             |         |          |           |             |         |             |
|                    |         |          |           |             |         |             |
|                    |         |          |           |             |         |             |
|                    |         |          |           |             |         |             |
| C                  |         |          |           |             |         |             |
| 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   | SCOPE OF WORK   |                             |         |   | DATE:                              | REV:                      |
|--|---|-----------------------------|---------|---|------------------------------------|---------------------------|
| Dokken Engineering   | Project Summary   |                             |         |   | 11/3/2009                          | Messe                     |
| ROJECT:  | - Landa Company   |                             |         |   | MILESTONE/PHASE/PI                 | ROJECT SUMMARY:           |
| Van Buren Bridge Replacement - A   | mendment No. 2 - Request 2                                  |                             |         |   | All Phases                         |                           |
| DIRECT LABOR   |   |                             |         |   |                                    |                           |
|  | FUNCTION  | HOURS                       |         | RATE  | AMOUNT                             | 1                         |
| Rick Liptak  | Principal / Project Manager                                 |                             | _       | \$65.00   |                                    | 1                         |
| Juann Ramos  | Roadway Project Engineer                                    |                             |         | \$48.50   |                                    |                           |
| Matt Salveson  | Bridge Project Engieer                                      |                             |         | \$54.00   |                                    |                           |
| David Vandershaf   | Senior Engineer (DV)  |                             |         |   |                                    |                           |
| Vartin Maechler  |   |                             |         | \$48.00   |                                    |                           |
|  | Senior Engineer (MM)  |                             |         | \$45.00   |                                    |                           |
| John Bishop  | Senior Engineer (JB)  |                             |         | \$58.00   |                                    |                           |
| Ryan Neves   | Associate Engineer (RN)                                     |                             |         | \$35,00   |                                    |                           |
| Vathan Donnely   | Associate Engineer (ND)                                     |                             |         | \$36.50   |                                    |                           |
| Brian Stephenson   | Associate Engineer (BS)                                     |                             |         | \$39.00   |                                    |                           |
| luan Rodriguez   | Assistant Engineer (JR)                                     |                             |         | \$26.25   |                                    |                           |
| Stephen Johnson  | Assistant Engineer (SJ)                                     |                             |         |   |                                    | li .                      |
| Claudia Fletcher   |   |                             |         | \$27.00   |                                    |                           |
|  | Roadway Detailer (CF)                                       |                             |         | \$36,50   |                                    |                           |
| Craig Hougton  | Bridge Detailer (CH)  |                             |         | \$43.00   |                                    |                           |
| thanh Dang   | Bridge Detailer (KD)  |                             |         | \$40.00   |                                    |                           |
| lob Lawrence   | Senior Engineer (RL)  | 20                          | e       | \$42,00   | \$840.00                           |                           |
| fichael Wilson   | Geologist (MW)  |                             |         | \$41.00   |                                    |                           |
| oshua Munn   | Geologist (JM)  | 200                         | æ       | \$25.00   | \$5,000.00                         |                           |
|  |   |                             |         |   |                                    |                           |
|  |   |                             |         |   |                                    |                           |
|  | TOTAL HOURS   | 220                         | .]      | TOT   | AL DIRECT LABOR                    | \$5,840.0                 |
| ULTIPLIERS   |   |                             |         |   |                                    |                           |
| SCALATION @  | (Rate)  |                             |         |   |                                    |                           |
| VERHEAD @  | 171,00% (of Total Direct Labor                              | + Escalation)               |         |   | \$9,986 40                         |                           |
| AYROLL ADDITIVES @   | (of Total Direct Labor                                      |                             |         |   |                                    |                           |
|  |   |                             |         | TC  | OTAL MULTIPLIERS                   | \$9.986.4                 |
| THER DIRECT EXPENSES   | ● Billed at Actual Cost ●                                   |                             |         |   |                                    |                           |
| ITEM   | QUANTITY  | UNIT                        |         |   |                                    |                           |
| ater Sampling  |   |                             | 50      | UNIT COST                                       | AMOUNT                             |                           |
| ater Sampling  |   | LS                          | _       | \$8,000.00                                      | AMOUNT                             |                           |
|  |   | LS<br>LS                    |         | \$8,000.00                                      | AMOUNT                             |                           |
|  |   |                             |         |   | AMOUNT                             |                           |
|  |   |                             |         | \$8,000.00                                      | AMOUNT                             |                           |
|  |   |                             |         | \$8,000.00                                      | AMOUNT                             |                           |
|  |   |                             |         | \$8,000.00                                      | AMOUNT                             |                           |
|  |   |                             |         | \$8,000.00                                      | AMOUNT                             |                           |
|  |   |                             |         | \$8,000.00                                      | AMOUNT                             |                           |
|  |   |                             |         | \$8,000.00                                      | AMOUNT                             |                           |
|  |   |                             |         | \$8,000.00                                      | AMOUNT                             |                           |
|  |   |                             |         | \$8,000.00                                      | AMOUNT                             |                           |
|  |   |                             |         | \$8,000.00                                      | AMOUNT                             |                           |
|  |   |                             |         | \$8,000.00<br>\$20,000.00                       |                                    |                           |
| eotechnical Investigations   |   |                             |         | \$8,000.00<br>\$20,000.00                       | IRECT EXPENSES                     |                           |
| eotechnical Investigations  JTSIDE SERVICES (w/o fee)  | LABOR   | LS                          |         | \$8,000.00<br>\$20,000.00                       | IRECT EXPENSES                     |                           |
| UTSIDE SERVICES (w/o fee)  | LABOR   |                             |         | \$8,000.00<br>\$20,000.00                       |                                    |                           |
| UTSIDE SERVICES (w/o fee) COMPANY A Associates   | LABOR   | LS                          |         | \$8,000.00<br>\$20,000.00                       | IRECT EXPENSES                     |                           |
| UTSIDE SERVICES (w/o fee) COMPANY A Associates   | LABOR   | LS                          |         | \$8,000.00<br>\$20,000.00                       | IRECT EXPENSES                     |                           |
| UTSIDE SERVICES (w/o fee) COMPANY A Associates   | LABOR   | LS                          |         | \$8,000.00<br>\$20,000.00                       | IRECT EXPENSES                     |                           |
| ITSIDE SERVICES (w/o fee) COMPANY A Associates   | LABOR   | LS                          |         | \$8,000.00<br>\$20,000.00                       | IRECT EXPENSES                     |                           |
| UTSIDE SERVICES (w/o fee) COMPANY A Associates   | LABOR   | LS                          |         | \$8,000.00<br>\$20,000.00                       | IRECT EXPENSES                     |                           |
| ITSIDE SERVICES (w/o fee) COMPANY A Associates   | LABOR   | LS                          |         | \$8,000.00<br>\$20,000.00                       | IRECT EXPENSES                     |                           |
| ITSIDE SERVICES (w/o fee) COMPANY A Associates   | LABOR   | LS                          |         | \$8,000.00<br>\$20,000.00                       | IRECT EXPENSES                     |                           |
| UTSIDE SERVICES (w/o fee) COMPANY A Associates omas  | LABOR   | LS                          |         | \$8,000.00<br>\$20,000.00                       | IRECT EXPENSES                     |                           |
| UTSIDE SERVICES (w/o fee) COMPANY A Associates omas  |   | MULTIPLIER                  |         | \$8,000.00<br>\$20,000.00                       | IRECT EXPENSES                     |                           |
| UTSIDE SERVICES (w/o fee) COMPANY A Associates ornas  ES UTSIDE SERVICES ADMIN FEE @                         | (of Total Outside Servi                                     | MULTIPLIER ides & Outside S | ervices | \$8,000.00<br>\$20,000.00                       | TOTAL  JTSIDE SERVICES             |                           |
| ITSIDE SERVICES (w/o fee) COMPANY A Associates omas  ES ITSIDE SERVICES ADMIN FEE @                          | (of Total Outside Servi<br>010.00% (of Total Direct Labor - | MULTIPLIER ides & Outside S | ervices | \$8,000.00 \$20,000.00  FOTAL OTHER D  TOTAL OL | IRECT EXPENSES                     |                           |
| ITSIDE SERVICES (w/o fee) COMPANY A Associates omas  ITSIDE SERVICES ADMIN FEE @ ITSIDE SERVICES ADMIN FEE @ | (of Total Outside Servi                                     | MULTIPLIER ides & Outside S | ervices | \$8,000.00 \$20,000.00  FOTAL OTHER D  TOTAL OL | TOTAL  JTSIDE SERVICES  \$1.582.64 |                           |
| ITSIDE SERVICES (w/o fee) COMPANY A Associates omas  ITSIDE SERVICES ADMIN FEE @ ITSIDE SERVICES ADMIN FEE @ | (of Total Outside Servi<br>010.00% (of Total Direct Labor - | MULTIPLIER ides & Outside S | ervices | \$8,000.00 \$20,000.00  FOTAL OTHER D  TOTAL OL | TOTAL  JTSIDE SERVICES             | \$1,582.64                |
| eotechnical Investigations  UTSIDE SERVICES (w/o fee)  | (of Total Outside Servi<br>010.00% (of Total Direct Labor - | MULTIPLIER ides & Outside S | ervices | \$8,000.00 \$20,000.00  FOTAL OTHER D  TOTAL OL | TOTAL  JTSIDE SERVICES  \$1.582.64 | \$1.582.64<br>\$17,409.04 |

#### FEE PROPOSAL WORKSHEET COMPANY: SCOPE OF WORK DATE: REV: Dokken Engineering Construction Support 11/3/2009 PROJECT: MILESTONE/PHASE/PROJECT SUMMARY: Van Buren Bridge Replacement - Amendment No. 2 - Request 2 DIRECT LABOR PERSONNEL **FUNCTION** HOURS RATE AMOUNT Rick Liptak Principal / Project Manage \$65.00 Juann Barnos Roadway Project Engineer \$48.50 Matt Salveson Bridge Project Engieer \$54.00 David Vandershaf Senior Engineer (DV) \$48.00 Martin Maechier Senior Engineer (MM) \$45,00 John Bishop Senior Engineer (JB) \$58.00 Ryan Neves Associate Engineer (RN) \$35,00 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 Crain Hougton Bridge Detailer (CH) \$43.00 Khanh Dang Bridge Detailer (KD) \$40.00 Rob Lawrence Senior Engineer (RL) \$42,00 \$840.00 Michael Wilson Geologist (MW) \$41.00 Joshua Munn Geologist (JM) 200 \$25.00 \$5,000.00 TOTAL HOURS TOTAL DIRECT LABOR \$5,840,00 MULTIPLIERS ESCALATION @ (Rate) OVERHEAD @ 171 00% (of Total Direct Labor + Escalation) \$9,986,40 PAYROLL ADDITIVES @ (of Total Direct Labor + Escalation) TOTAL MULTIPLIERS \$9,986,40 OTHER DIRECT EXPENSES ••• Billed at Actual Cost ••• ITEM QUANTITY UNIT UNIT COST AMOUNT Water Sampling LS \$8,000.00 Geotechnical Investigations LS \$20,000.00 TOTAL OTHER DIRECT EXPENSES OUTSIDE SERVICES (w/o fee) COMPANY LABOR MULTIPLIER **EXPENSES** TOTAL LSA Associates **Psomas** TOTAL OUTSIDE SERVICES OUTSIDE SERVICES ADMIN FEE @ (of Total Oulside Services & Outside Services Fees) DOKKEN ENGINEERING @ 10.00% (of Total Direct Labor + Total Multipliers) \$1,582,64 OUTSIDE SERVICES @ 10.00% (of Total Labor + Total Multiplier for Outside Services) TOTAL FEES \$1,582.64 \$17,409.04 TOTAL COST

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