

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

SUBMITTAL DATE:
December 3, 2009

FROM: TLMA - Transportation Department

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SUBJECT: Amendment No. 2 to the Engineering Services Agreement with Kimley Horn and Associates for the Van Buren Boulevard / Interstate 215 Interchange Project

RECOMMENDED MOTION: That the Board of Supervisors:

1. Approve Amendment No. 2 to the Engineering Services Agreement between the County of Riverside and Kimley-Horn and Associates, Inc., and;

2. Authorize the Chairman to execute the same.

BACKGROUND: On July 1, 2008, the Board of Supervisors approved an agreement with Kimley-Horn and Associates, Inc. to prepare 30% design plans and studies for improvements to the Van Buren Boulevard/I-215 Interchange Project. On July 21, 2009, the Board of

Juan C. Perez Director of Transportation

BEC (Continued on next page) Current F.Y. Total Cost: In Current Year Budget: \$ 1,403,289 Yes **FINANCIAL Current F.Y. Net County Cost: Budget Adjustment:** \$0 No DATA **Annual Net County Cost:** For Fiscal Year: \$0 2009/2010 SOURCE OF FUNDS: RCTC - Measure A (100%) Positions To Be **Deleted Per A-30** Requires 4/5 Vote C.E.O. RECOMMENDATION: APPROVE

County Executive Office Signature

Policy

X

Policy

 \boxtimes

Consent

Jep't Recornm.: Per Exec. Ofc.:

Prev. Agn. Ref. 07/01/08 (3.97) 07/21/09 (3.84) District: 1 & 5

Agenda Number:

3.32

ATTACHMENTS FILED WITH THE CLERK OF THE BOARD

The Honorable Board of Supervisors
RE: Amendment No. 2 to the Engineering Services Agreement with Kimley Horn and Associates for the Van Buren Boulevard / Interstate 215 Interchange Project December 3, 2009
Page 2 of 2

Supervisors approved Amendment No. 1 to the original agreement with Kimley-Horn and Associates, Inc. to prepare 65% design plans and studies for improvements to the Van Buren Boulevard/I-215 Interchange Project. Amendment No. 2 is now required in order to complete the remaining tasks to get the project ready for construction.

The Van Buren/I-215 Interchange Expansion Project will upgrade the interchange for one of the County's major arterials in order to improve current operations, provide for future traffic growth, and allow for the expansion of the Meridian Business Park and other uses at the March JPA, which is expected to be one of the primary job centers in the County.

On July 1, 2008 the Board approved the Project Baseline Agreement with the California Transportation Commission (CTC) for the Van Buren/I-215 Interchange Expansion Project. This Project Baseline agreement provided eligibility for \$10 million in Transportation Corridor Improvement Funds (TCIF) from the State's Prop 1B Bonds Goods Movement Program. As part of this agreement, the CTC and its Project Delivery Council monitors the progress of the Van Buren/I-215 Interchange Expansion Project. The total cost of this improvement project is now estimated to be in the \$60 - \$70 million range given the current bid market.

The significant improvements to the Van Buren/I-215 Interchange will consist of replacing, realigning, and widening the existing bridges from two to five lanes over I-215 and from four to seven lanes over the BNSF railroad line. All of the on/off ramps will be reconstructed and widened with one additional lane. The southbound on/off ramps and northbound off ramp will be widened from two to three lanes. The northbound on ramp will be widened from one to two lanes. In addition, a three lane northbound loop on ramp will be added with the project. Two signals are proposed, one at the southbound on/off ramps and the other at the northbound on/off ramps. The project will introduce auxiliary lanes from Van Buren to Cactus Boulevard in both the north and southbound directions, and will realign the southbound I-215 lanes to accommodate the proposed on/off ramps by widening the freeway to the outside.

The RCTC-Measure A funding is sufficient to fund the associated costs for the engineering consultant and staff costs to complete the 100% plans and to provide engineering support during the bidding and construction phases of the project. March JPA and the Transportation Department are actively seeking additional funding through regional programs and other means to secure complete construction funding.

Project No. B40527

AMENDMENT 2

AMENDMENT TO AGREEMENT BETWEEN

THE COUNTY OF RIVERSIDE AND KIMLEY-HORN AND ASSOCIATES, INC. FOR ENGINEERING SERVICES
ON THE VAN BUREN BOULEVARD / INTERSTATE 215 INTERCHANGE PROJECT

THIS AMENDMENT 2 (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 Stat	e of
California (hereinafter the "COUNTY"), and Kimley-Horn and Associates, Inc. (hereinafter "ENGINEER").	

RECITALS

- A. COUNTY and ENGINEER have entered in an agreement entitled " Engineering Services Agreement for the Van Buren Boulevard / Interstate 215 Interchange between the County of Riverside Transportation Department and Kimley-Horn and Associates, Inc.," that is dated July 1, 2008 (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 project reports, plans, specifications and estimates.
- B. The parties desire to supplement the current Agreement to 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 \$3,018,623.00 (including budgets for Amendment Nos. 1) shall be increased by \$1,403,289.08 to \$4,421,918.08 as provided below:
 - Increase the Phase II budget by the amount of \$1,189,171.93, increase Phase III budget by the amount of \$69,552.42, and increase the Phase IV budget by the amount of \$144,564.73 for engineering services necessary to complete from 65% to 100% design. Detailed descriptions of the extra work and summaries of the requested and recommended budget adjustments are provided in Attachment "1" of this Amendment.
- 2. Except to the extent specifically modified or amended hereunder, all of the terms, covenants and conditions of the Agreement as approved on dated July 1, 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	ARTICLE VIII • APPROVALS	ENGINEER Approvals
2	COUNTY Approvals	ENGINEER:
3	RECOMMENDED FOR APPROVAL:	
4		
5	\cap	Dated: 10/12/0
6	Dated: 12/18/69	Dennis Landaal, PE
7	JUAN C. PEREZ	Vice President
8	Director of Transportation	TITLE
9		ENGINEER:
10	APPROVED AS TO FORM:	
11		
12		Dated: 10/12
13	Mersha L. Victor Dated: 18/23/09	Jason Valencia PRINTED NAME
14	PAMELA J. WALLS	Assistant Secretary
15	County Counsel	TITLE
16		
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	Dated:	
27	KECIA HARPER-IHEM	
28	Clerk to the Board	

ATTACHMENT 1

ARTICLE All • PROJECT ADMINISTRATION

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This task includes the day-to-day management of the PROJECT. Project Development Team
(PDT) meetings with the COUNTY PROJECT MANAGER, the California Department of
Transportation (CALTRANS) staff and other representatives from affected agencies will be
held once a month. The subconsultants will attend PDT meetings as appropriate. The
ENGINEER shall coordinate PDT meetings, prepare meeting notes for each meeting and
have these available for review at least one week prior to each succeeding meeting. Action
items are to be tracked and reviewed at PDT meetings.
The ENGINEER's Project Management Plan will include a communication and risk plan. The
communication plan will consist of a roster of staff involved in the PROJECT and multiple
forms of contact for each team member (address, telephone number, e-mail, etc.). The
communication plan will also identify lines of communication with levels of
responsibility/authority for development of the PROJECT.
A risk management plan is to be developed and maintained in order to address the major
project risks to scope, cost and schedule.
Acquimption

18 <u>Assumptions:</u>

- Effort and deliverables associated with the PDT meetings will be part of Article AIII Task
 B Project Development Team Meeting of this Agreement.
- ❖ First draft of the Communication Plan and Risk Management Plan will be delivered within 30 days of NTP and updated monthly, if required. The Communication and Risk Management Plan will be distributed at the PDT meetings.
- Affected agencies include: March Air Reserve Base (ARB), March JPA, RCTC, Railroad, COUNTY and CALTRANS.

B. BUDGETING

- The ENGINEER will prepare budgets for each task and milestone for the PROJECT. Such
- 3 budgets will be entered in to the ENGINEER's Management Information System along with
- 4 actual costs incurred and used as a basis for cost monitoring and control.
- 5 <u>Assumptions:</u>
- 6 ❖ The ENGINEER will set up and monitor the project on a schedule, task and overall
- 7 budget basis.

8

C. COST ACCOUNTING

- The ENGINEER will prepare monthly reports of expenditures for the PROJECT by task and
- 10 milestone. Expenditures include direct labor costs, other direct costs and subconsultant
- 11 costs. These reports will be prepared per COUNTY's guidelines and will be included as
- supporting data for invoices presented to the COUNTY every month.
- 13 <u>Assumptions:</u>
- 4 ♣ Prior to sending out monthly reports, the ENGINEER Project Accounting staff will meet
- with Riverside COUNTY once to review the COUNTY guidelines. ENGINEER to obtain
- 16 example of an acceptable invoice format from the COUNTY website. ENGINEER to
- 17 follow COUNTY accounting processes documented on COUNTY website.

D. SCHEDULING

- Within one month from the Notice to Proceed (NTP), the ENGINEER will provide a detailed
- 20 project schedule, which indicates milestones, major activities and deliverables, to the
- 21 COUNTY for review and comments. This schedule will reflect assumed review times
- 22 necessary by all of the agencies involved. Review of the schedule will occur at subsequent
- trend meetings. Adjustments will be made, if necessary, due to changing circumstances.
- 24 <u>Assumptions:</u>
- 26 Project.
- 27 ❖ The schedule will be updated monthly as necessary.

28

'	ь.	FROGRESS REPORTING
2		Progress reports shall be prepared in accordance with COUNTY guidelines. Reports will be
3		required monthly and shall be accompanied by an invoice.
4		Assumptions:
5		* ENGINEER to obtain example of an acceptable Progress Report from the COUNTY
6		website. ENGINEER to follow COUNTY accounting processes documented on COUNTY
7		website.
8		
9	F.	CONTRACT ADMINISTRATION
10		The ENGINEERING PROJECT MANAGER shall maintain ongoing liaison with the COUNTY
11		PROJECT MANAGER, CALTRANS Project Manager, AGENCY contacts and utility
12		companies to promote effective coordination during the course of project development.
13		Progress meetings with ENGINEER's staff, subconsultants and the COUNTY PROJECT
14		MANAGER shall be held regularly. Engineer is to provide project scope, schedule, budget
15		photos, and various project details to the COUNTY web master for posting on the COUNTY
16		website.
17		Assumptions:
18		❖ Phone calls and unscheduled meetings are to be part of project management activities.
19		❖ Meetings will be held with each of the following utility companies: Southern California
20		Gas for the HP gas line, Southern California Edison for the OH electrical and Western
21		Municipal Water, and any other utility company, as required.
22		❖ PS&E close out will be part of this task. Activities associated with the close out include
23		verification that all contract requirements have been completed, identify lesson learned
24		(memorandum), update and archive project hardcopy and electronic files and close the
25		project.
26		
27		

2	G.	INT	ERMEDIATE STRUCTURE PS&E (90% CHECKED PLANS)
3		The	(90%) structure PS&E will be compiled and submitted for review to the COUNTY and
4		CAL	TRANS DOS.
5	Н.	DRA	AFT FINAL STRUCTURE PS&E (95%)
6		The	draft (95%) structure PS&E shall be compiled and submitted for review to the COUNTY
7		and	CALTRANS DOS. This will include for each bridge:
8		One	set of reproducible and seven sets of "blueline" plans, two copies of design calculations
9		and	design check calculations, three sets of quantity calculations and Marginal Estimates and
10		three	e sets of edited Structure Special Provisions. (One copy of each will be returned with
11		com	ments). The package will be accompanied by a Structures PS&E checklist.
12	ı.	FINA	AL STRUCTURE PS&E
13		The	final structure PS&E will incorporate review comments from the COUNTY, CALTRANS
14		DOS	and other affected agencies. The ENGINEER will provide all necessary documents in a
15		bid-r	eady form. It is assumed that the COUNTY will advertise, award and administer the
16		cons	struction contract for this PROJECT.
17		The	ENGINEER shall deliver the following documents to COUNTY and CALTRANS:
18		1	set of original tracings of final design plans
19		1	set of vellums of final design plans
20		1	set of "blue-lines" of final design plans
21		1	set of final Structure Special Provisions
22		1	copy of final quantity calculations and estimate
23	*	1	copy of final design calculations
24		1	copy of design check calculations (upon request)
25		1	vellum and 2 "blue-lines" of bridge full-scale plans in accordance with Memo to
26			Designers 2-2.
27		2	Resident Engineer's Files (structures information)
28		2	copies of Environmental Constraint Areas (if required by Environmental Document)
	Kiml	ey-Hor	n and Associates – Final Scope – Van Buren Interchange 03/04/08 Page 4 of 15

2	ARTICLE AV • ROADWAY
3	The title sheet for specifications and reports, and each sheet of plans, shall bear the professional
4	seal, certificate number, registration classification, expiration date of the certificate and signature
5	of the Professional Engineer responsible for their preparation. All roadway plans shall also use
6	single sheet files.
7	The following is a summary listing of drawing types that shall be prepared as part of the roadway
8	PS&E:
9	A. BASIC ROADWAY PLANS
10	Title Sheet
11	Typical Cross Sections
12	Key Map and Line Index
13	• Layouts
14	Profile and Superelevation Diagrams
15	Construction and Intersection Details
16	Erosion Control Plan
17	Erosion Control Details and Quantities
18	Assumptions:
19	The roadway design plans shall be based upon the Draft Project Report – Alternative 2E
20	
21	B. CALCULATIONS
22	The following calculations will be provided:
23	Grid Grades
24	Slope Staking Notes
25	Earthwork Quantities
26	Other Quantities
27	
28	

2		Assumptions:
3		 Cross sections and slope stake notes will be every 50 feet and will include key stations in
4		between. The cross-sections and slope stake notes will be prepared per CALTRANS
5		standards.
6	C.	DRAINAGE PLANS
7		ENGINEER shall perform hydrology and hydraulic studies to obtain and provide design
8		solutions, which will remove surface runoff from the area of the improvements and provide
9		the appropriate water quality mitigation facilities. Cross culverts that convey runoff flows
10		across the freeway and through the interchange will be extended to the extent necessary
11		required by the proposed improvements. Studies and designs shall be performed in
12		accordance with Chapter 800 of the current Highway Design Manual, District 8 Project
13		Development Policy Memos and the current CALTRANS Standard Plans.
14		The following list of drawing types shall include:
15		Drainage Layouts
16		Drainage Profiles
17		Drainage Details
18		Drainage Quantities
19		o <u>Assumptions:</u>
20		The following drainage facilities are assumed:
21		 Extending or replacing existing 15 culvert locations (size varies from 24" to 36";
22		length varies from 15 feet to 70 feet)
23		Adding an additional 5 culverts at:
24		 Approximate station 1821+74 – 18 inch at 100 feet long
25		 Approximate station 1817+75 – 18 inch at 50 feet long
26		 Approximate station 1801 to 1803 – 4 foot by 2 foot RCB at 170 feet long
27		 Approximate station 1802+75 – 24 inch at 580 feet long
28		 Approximate station 1794+50 – 36 inch at 200 feet

03/04/08

Page 6 of 15

Kimley-Horn and Associates - Final Scope - Van Buren Interchange

•	i avement beinleation	
2	Roadside Sign Plan	
3	Highway Lighting and Sign Illumination	
4	Signal and Lighting	
5	Temporary Signals and Lighting	
6	Ramp Metering System	
7	7 • Power supply for electrical systems	are to be designed and coordinated by the
8	8 ENGINEER	
9	9 <u>Assumptions:</u>	
10	O Detour Plans- Two types of detour plans a	are required for this project. One type that
11	provides detours for the traffic shift on the	northbound ramp in the northeast corner of the
12	2 interchange. This detour is required to shi	ft traffic due to a gap between existing and
13	3 proposed as a temporary detour. The second	ond type of detour is an area wide detour map
14	4 that provides detours to other interchanges	during construction. Detour Plans include I-
15	5 215 mainline shift construction staging, tra	ffic handling, and detours.
16	Sign Plans- An inventory of existing signs	will be performed and included in the sign
17	plans along with the proposed new signs.	Additionally, it is assumed two overhead sign
18	8 structures will be required. This task assu	mes the following sheets:
19	9 o Sign Plan Sheets	
20	O o Overhead Sign Details Sheets	
21	1 o Appropriate structural sheets for th	e sign structures
22	2 Signal - There are two traffic signals propo	sed for the interchange.
23	Staged Construction Plans – Stage construction	action plans are assumed to be consistent with
24	the concept developed during the Project F	Report phase of the project: there will be six
25	5 primary stages of construction.	
26	5 ❖ Traffic Handling-Traffic Handling sheets w	ill be prepared for each stage of construction.
27	7 • Pavement delineation- Final pavement deli	neation sheets will be prepared for each layout
28	3 sheet.	
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1		*	Highway Lighting and Sign Illumination- It is assumed that highway lighting will be
2			provided throughout the limits of the project.
3		*	Ramp Metering System- The project has two ramp meters proposed for the entrance
4			ramps to the freeway.
5		*	Video Detection System – Signal design to incorporate video detection elements as
6			require.
7		*	Bicycle Detection System – Latest design standards for bicycle detection and operation
8			are to be incorporated
9		*	Quantities Plan Sheets - The following sheets will also be prepared for the following sets
10			of plans:
11			o Construction Area Sign Quantities
12			o Detour Quantities
13			o Sign Plan Quantities
14			o Traffic Handling Quantities
15			o Pavement Delineation Quantities
16		*	Communication Layout Plans and Communication Details- Although not requested in the
17			detail list of plan sheets, CALTRANS will require communications between the ramp
18			meters and traffic signals back to the traffic management center. Current communication
19			system is through wireless network. Plans will reflect connections to existing network.
20		*	Irrigation Controller Electrical- It is assumed that two separate plan sheets will be
21			required for the electrical service conduit to the irrigation controllers.
22			
23			
24	E.	MI	SCELLANEOUS PLANS
25		EN	GINEER shall also be responsible to prepare PS&E for the Airbase thematic
26		stre	eetscape/landscape and aesthetic treatments for the structures. The details of the
27		cor	nceptual design are provided in the Draft Project Report.
28		•	Utility Plan

` 1		Summary of Quantities
2		Retaining Wall Plan and Elevation
3		Retaining Wall Details and Quantities
4		Streetscaping/Landscaping/Irrigation
5	<u> As</u>	sumptions:
6	*	Utility plan sheets identifying existing, abandoned, relocated, etc utilities will be prepared.
7	*	All of the proposed retaining walls will be CALTRANS standard walls - Type 1. Each
8		sheet will have a layout, elevation showing footing and top of wall elevations and typical
9		section. The following are the walls that will be included in the PS&E:
10		o Van Buren/northbound ramps – retaining wall along the east side of Van Buren.
11		Approximately 350 feet long.
12		o Southbound entrance ramp – retaining wall along the west side – approximately
13		550 feet long. Retaining wall along the east side – approximately 150 feet long.
14		o Southbound exit ramp – retaining wall along the west side – approximately 250
15		feet long. Retaining wall along the east side 600 feet long.
16		 Northbound Entrance Ramp (diamond) – retaining wall along the east side –
17		approximately 400 feet long.
18		 Van Buren west of the interchange – retaining wall along the south side –
19		approximately 450 feet long. Retaining wall along the north side – approximately
20		450 feet long.
21	*	ENGINEER will prepare construction documents (in English units) and cost projections
22		for the highway planting and irrigation system identified for the project. The construction
23		documents will follow CALTRANS Highway Planting Policy and will include plans for 3
24		years of plant establishment. The planting plan will be based on the approved Project
25		Report planting plan.
26	*	Aesthetics Coordination. ENGINEER to incorporate the aesthetics specified in the
27		PA/ED phase into the construction documents for the project walls, structures and other

	•	
1		features. Color, texture, finish, etc consistent with the approved landscape concept plan
2		and environmental documents prepared previously.
3		
4	F.	INTERMEDIATE REVIEWS
5		Roadway, drainage, traffic and miscellaneous plans shall be submitted for review to the
6		COUNTY/CALTRANS and other affected agencies/stakeholders at the 95% and 100%
7		complete stage. The ENGINEER will submit up to 40 sets of plans reduced to 11" x 17" size
8		and up to 5 full size sets of all plans as required. Roadway cross sections, grid grades and
9		slope staking notes will be submitted only at the 100% complete submittal stage. Also, the
10		ENGINEER should submit electronic samples of all plan sheet groups on a compact disc to
11		CALTRANS at intermediate reviews.
12		
13		
14	G.	SPECIFICATIONS AND ESTIMATE
15		Specifications and Special Provisions will be prepared for items not covered by the
16		CALTRANS Standard Specifications or Standard Special Provisions.
17		The Roadway Construction Cost Estimate will be prepared using the latest available
18		CALTRANS cost data, COUNTY cost data and readily available actual recent construction
19		costs in the PROJECT area. Cost estimates are to be provided with the appropriate
20		submittals and updated on a quarterly basis.
21		Assumptions:
22		❖ It is assumed that the construction contract will be administered by the COUNTY. As
23		such, the front end "boilerplate" will be per COUNTY standards and will be provided by
24		the COUNTY. ENGINEER is to coordinate with the COUNTY contract unit to ensure that
25		the COUNTY contract elements are implemented in the project contract documents.
26		Technical specifications will be prepared per CALTRANS' standards and format.

* CALTRANS requires that the latest version of their SSPs be utilized. As such, technical

specifications will be updated as necessary, prior to the 95% and 100% submittal.

27

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2	Н.	QUALITY CONTROL
3		The Plans, Specifications and Estimate (PS&E) will be subject to quality control review
4		before submittal. These reviews will be in conformance with CALTRANS and COUNTY
5		standards and criteria as well as minimizing typographical omissions.
6		
7	l.	DRAFT PS&E (95% COMPLETE)
8		The roadway plans, revised to incorporate Quality Control review comments, will be
9		submitted to the COUNTY, CALTRANS and other affected agencies/stakeholders for review
10		and comments. These will include:
11		Roadway Plans
12		Special Provisions
13		Design Calculations
14		Roadway Quantities and Cost Estimate
15		One safety/constructability review meeting will be held at the 95% PS&E stage.
16		Assumptions:
17		❖ Includes one review process. Focused meetings with specific functional units are to be
18		held to discuss review comments, as required.
19		Comments to 95% submittal to be incorporated to the 100 % submittal.
20		
21		
22	J.	FINAL PS&E (100% COMPLETE)
23		The final PS&E will incorporate applicable comments from the draft PS&E received from the
24		COUNTY, CALTRANS and other affected agencies/stakeholders. The ENGINEER will
25		provide the necessary final PS&E documents in a bid-ready form. PROJECT files and the
26		Project Engineer's/Resident Engineer's file will also be submitted with the final PS&E. The

entire PROJECT, which will be prepared in MicroStation format, will be submitted upon final

approval of the PS&E.

27

Assumptions:

- ❖ Focused meetings with specific functional units are to be held to discuss review comments, as required. (The number of review cycles is related to the quality of the submittal there should be no reference to number of review cycles especially for the 100%. You will need to go through the oversight process and the OE review as well.)
- It is assumed that the COUNTY will be the lead agency for Advertising, Awarding, and Administering the contract.

ARTICLE AVI • CONSTRUCTION BIDDING PHASE

Bidding procedures will be the responsibility of the COUNTY. Coordination with CALTRANS District Office Engineer (OE) can be expected and to be included in the scope of services. Although, the project will be administered by the COUNTY, electronic plan submittals meeting CALTRANS electronic bid requirements will be required for CALTRANS records. While the PROJECT is being advertised for bids, all questions concerning the intent shall be referred to COUNTY for resolution. In the event that the items requiring interpretation in the drawings or specifications are discovered during the bidding period, said items shall be analyzed by the ENGINEER for decision by COUNTY as to the proper procedure required. Corrective action taken will either be in the form of a memo prepared by the ENGINEER and issued by COUNTY or by covering change order after the award of the construction contract. ENGINEER to prepare ADDENDA as required.

ARTICLE AVII • CONSTRUCTION SUPPORT PHASE

ENGINEER shall attend pre-bid meeting(s) and will present the project in sufficient detail to the

contractors so that they can prepare comprehensive bid packages.

- 1 A. ENGINEER shall attend the pre-construction meeting with the successful construction
- 2 contractor upon notification by the COUNTY.
- 3 B. Upon award of the construction contract, ENGINEER will proceed with the Construction
- 4 Support Phase services required by this contract.
- 5 C During construction, the ENGINEER shall furnish necessary additional drawings for
- 6 correcting and change orders required by errors and omissions of ENGINEER. Such
- drawings will be requested in writing from the ENGINEER by COUNTY and shall be at no
- 8 additional cost to the COUNTY. The original tracing(s) of the drawings and contract wording
- 9 for change orders shall be submitted to the COUNTY for duplication and distribution.
- 10 D. ENGINEER shall review shop drawings and RFIs submitted by the construction contractor
- 11 (falsework review is not included) as requested by the COUNTY as determined necessary by
- the ENGINEER. ENGINEER shall complete shop plan reviews within two weeks of receipt.
- Contract change order and RFI reviews shall be completed between two working days and
- two working weeks of receipt, depending on the complexity of the issue.
- 15 E. Drawings and change orders required due to actions of the COUNTY, CALTRANS, or
- 16 Contractor which are beyond the scope of the ENGINEER's responsibilities, shall be
- 17 considered extra services.
- 18 F. ENGINEER shall be available to visit to the jobsite for on-site review of construction and
- other visits to the jobsite as requested by the COUNTY or CALTRANS to resolve any
- 20 discrepancies in the contract documents. ENGINEER shall bring to the attention of the
- 21 COUNTY/CALTRANS Resident Engineer defects or deficiencies in the work by the
- 22 construction contractor, which the ENGINEER may observe. ENGINEER shall have no
- authority to issue instructions on behalf of the COUNTY or to deputize another to do so. All
- agreements shall be between the COUNTY and its construction contractor. These provisions
- shall not be construed as making the ENGINEER responsible for failure of the construction
- 26 contractor to carry out the work in accordance with the contract documents nor the
- construction means or methods or techniques, sequences, procedures or safety programs in
- 28 connection with the work.

•	
1	G. ENGINEER shall prepare and deliver to the COUNTY and CALTRANS the "As-Built" plan
2	within two months of completion of project construction.
3	
4	ARTICLE AVIII • COMPUTER FACILITIES
5	A. CALCULATIONS
6	All roadway calculations will be performed using COGO PC and InRoads or Road Calc. The
7	structural analyses and design will be performed by using STAADIII, GTSTRUDL, SEISAB
8	PCBRIDGE, PCYIELD, PCFOOT, PCBENT and PCABUT programs meeting
9	COUNTY/CALTRANS standards. The data files and the results will be submitted
10	electronically on compact discs along with a hard copy.
11	
12	B. COMPUTER AIDED DRAFTING AND DESIGN (CADD)
13	All plans will be prepared using MicroStation format in conformance with the lates
14	CALTRANS CADD Users Manual and the CALTRANS Drafting Manual to assure complete
15	compatibility.
16	ARTICLE AIX • VALUE ENGINEERING
17	A value engineering review has been completed, and a copy will be provided to the successfu
18	ENGINEER. The results of the VE Study are to be incorporated into the design where practical
19	and feasible.
20	ARTICLE AX • QUALITY CONTROL PLAN
21	A Quality Control Plan will be established for this PROJECT in accordance with the provisions of
22	Article IV, Section H of the Agreement. It will be provided to the COUNTY within two (2) weeks
23	after NTP for review and approval.
24	
25	END OF SCOPE

END OF SCOPE

Van Buren / I-215 Interchange Project	PS&E PHASE II	Bidding PHASE III	Construct. PHASE IV	TOTALS
Kimley-Horn and Associates, Inc.	\$879,405.20	\$50,580.92	\$101,969.24	\$1,031,955.35
Aguirre & Associates DBE				
Geocon Consultants, Inc.				
Helix Environmental Planning, Inc.		\$3,458.29	\$4,679.21	\$8,137.50
Butsco (Utility)				
Simon Wong Engineering DBE	\$201,660.19	\$9,190.26	\$24,774.04	\$235,624.50
Overland, Pacific and Cutler, Inc. (ROW)				
Contingency (10%)	\$108,106.54	\$6,322.95	\$13,142.25	\$127,571.73
TOTALS	\$1,189,171.93	\$69,552.42	\$144,564.73	\$1,403,289.08

Phase i:

Phase II:

N/A Final Plans, Specs & Estimate Bid / Award Support Construction Support Phase III: Phase IV:

Phase V: <not used>

COMPANY:		SCOPE OF WOR				DATE:	RE	√ :
Kimley-Horn and Associates, Inc.		Project Summa	ry			6/24/2009 MILESTONE/PHAS		1
Van Buren Boulevard Interchange	on I-215 Recon	struction Project				All Phases	EPI	KOJ SUMMARY
DIRECT LABOR PERSONNEL				- 125			,	
Dennis Landaal, PE		NCTION	HOURS		RATE	AMOUNT		
Alan Tubosnick	Project Mana	•	220	@	\$67.00	\$14,719.90		
Mike Ross, PE	Senior Engin		394	@	\$50.00	\$19,685.00		
Darren Adrian	QC/ Senior E	•	51	@	\$58.00	\$2,958.00		
Sam McWhorter, PE	QC/ Senior E	•	133	@	\$52.00	\$6,916.00		
Jon Collins, PE	Senior Draina		54	@	\$45.00	\$2,430.00		
Jason Valencia, PE	Senior Traffic Project Engin	•	181 1115	@	\$46.00 \$45.00	\$8,326.00 \$50,157.00		
sacon valenda, i E	Engineer	icci	1038	@	\$36.00	\$37,368.00		
	Assistant Eng	ineer	1844	@	\$32.00	\$59,008.00		
	CADD Design		2769	@ @	\$38.00	\$105,222.00		
	Admin Suppo		260	@	\$23.00	\$5,980.00		
	riomini Coppe		200	œ	Ψ20.00	ψ0,900.00		
	-	TOTAL HOURS	8058		TOTAL	DIRECT LABOR		\$312,769.90
MULTIPLIERS								
ESCALATION @		(Rate)						
OVERHEAD @	406 760/	·				#04E 100.00		
OVERHEAD @ PAYROLL ADDITIVES @	196./6%	(of Total Direct L				\$615,406.06		
TATROLE ADDITIVES @		(of Total Direct L	abor + Escala	ion)	TOTA	L MULTIPLIERS		\$615,406.06
					1017	E MOETH EICHO		ψ010, 10 0.00
OTHER DIRECT EXPENSES	· · · Billed at A	ctual Cost •••						
ITEM	1. 1	QUANTITY	UNIT	Πū	NIT COST	AMOUNT		
Reproduction						\$2,000.00		
Travel/Per Diem						7-,		
Mileage		18200	miles					
Deliveries						\$2,500.00		
Misc						\$3,000.00		
Office						\$913.80		1
						Ì		
			1	OTAL	OTHER DIRE	CT EXPENSES		\$8,413.80
		•				_		
OUTSIDE SERVICES (w/o fee) COMPANY		LABOR	MI II TIDI IED		VDENCEC	TOTAL		
Aguirre & Associates	DDE	LABUR	MULTIPLIER	. 1 5	XPENSES	TOTAL		
Geocon Consultants, Inc.	DBE							
Helix Environmental Planning, Inc.		\$2,323.00	\$4 5 20 27		\$600.00	\$7 450 07		
Butsco (Utility)		φ ∠,3∠3. UU	\$4,529.27		φουυ.υυ	\$7,452.27		
Simon Wong Engineering	DBE	\$87,656.68	\$125,638.32		\$1,000.00	\$214,295.00		
Overland, Pacific and Cutler, Inc. (F		60,0000,10 0	φ (20,000.32		φ1,000,00	φ214,295,00		1
.,	/		·	7	TOTAL OUTS	IDE SERVICES		\$221,747.27
								
EES			<u> </u>					
OUTSIDE SERVICES ADMIN FEE		of Total Outside						
(IMLEY-HORN AND ASSOCIATES		of Total Direct La				\$92,817.60		
DUTSIDE SERVICES @	010.00% (of Total Labor +	Total Multiplier	for Ou	tside Service	\$22,014.73		<u></u>
						TOTAL FEES	;	114,832.32
						TOTAL COST	\$1	,273,169.35
						· · · <u>·</u>		,.,,,,,,,

Visales Heave and Associates to .		SCOPE OF WOR				DATE:	REV:
Kimley-Horn and Associates, Inc.		Final Plans, Sp	oecs & Estimate			6/24/2009 MILESTONE/PHAS	1 E/PROJ SUMMAR
an Buren Boulevard Interchange o	n I-215 Reco	nstruction Projec	ct			Phase II	
IRECT LABOR							
PERSONNEL		UNCTION	HOURS		RATE	AMOUNT	
ennis Landaal, PE Jan Tubosnick	Project Man Senior Engli	-	184 308	@ @	\$67.00 \$50.00	\$12,307.90 \$15,385.00	
like Ross, PE	QC/ Senior		51	@	\$58.00	\$2,958.00	
arren Adrian	QC/ Senior		133	@	\$52.00	\$6,916.00	
am McWhorter, PE		age Engineer	54	@	\$45.00	\$2,430.00	
on Collins, PE ason Valencia, PE	Senior Traffi Project Engi	•	181 801	@	\$46.00 \$45.00	\$8,326.00 \$36,027.00	
ason valencia, r L	Engineer	11661	1038	@	\$36.00	\$37,368.00	
	Assistant En	gineer	1544	@	\$32.00	\$49,408.00	
	CADD Desig		2465	@	\$38.00	\$93,670.00	
.	Admin Supp	ort	200	@	\$23.00	\$4,600.00	
		TOTAL HOURS	6958		TOTAL	DIDECT LABOR	£3£0 30£ 00
ULTIPLIERS		TOTAL HOURS	6938	J	TOTAL	DIRECT LABOR	\$269,395.90
SCALATION @		(Rate)					
VERHEAD @	196.76%	(of Total Direct	Labor + Escalat	ion)		\$530.063.37	
AYROLL ADDITIVES @			Labor + Escalat				
					TOTA	L MULTIPLIERS	\$530,063.37
THER DIRECT EXPENSES	· · · Billed at	Actual Cost •••					
ITEM		QUANTITY	UNIT	ī	INIT COST	AMOUNT	
eproduction Drainage Report (2 submittals plu	us Final)	25	Report				
TMP	30 (11.21)	25	Report				
SWDR		25	Report				
Type Selection Specifications (300 pages)		50	Report				
Quality Control Plan		25	SSP Report				
30% PSE&E Plans (150 sheets)			Set			Ì	
60% PS&E (280 sheets -11"x17")		50	Set				
	'"\	50	Set				
Final PS&E (354 Sheets - 11"x17"	")	50	Set				
95% PS&E (354 sheets - 11"x 17 Final PS&E (354 Sheets - 11"x17" Final PS&E (354 Sheets - mylar fu Misc. Reproduction	")						
Final PS&E (354 Sheets - 11"x17" Final PS&E (354 Sheets - mylar fu Misc. Reproduction ileage	")	50 1 1 13000	Set Set LS mile				
Final PS&E (354 Sheets - 11"x17" Final PS&E (354 Sheets - mylar fu Misc. Reproduction ileage eliveries	")	50 1 1	Set Set LS				
Final PS&E (354 Sheets - 11"x17"	")	50 1 1 13000	Set Set LS mile LS				
Final PS&E (354 Sheets - 11"x17" Final PS&E (354 Sheets - mylar fu Misc. Reproduction illeage eliveries ravel/Per Diem	")	50 1 1 13000 1	Set Set LS mile				
Final PS&E (354 Sheets - 11"x17" Final PS&E (354 Sheets - mylar fu Misc. Reproduction ileage eliveries avel/Per Diem Airfare Hotel Meals	")	50 1 1 13000 1 8 8 8	Set Set LS mile LS Round trip Night Day				
Final PS&E (354 Sheets - 11"x17" Final PS&E (354 Sheets - mylar fullistic Reproduction leage eliveries avel/Per Diem Airfare Hotel Meals Car Rental	")	50 1 1 13000 1 8 8 8 8	Set Set LS mile LS Round trip Night Day Day				
Final PS&E (354 Sheets - 11"x17" Final PS&E (354 Sheets - mylar fu Misc. Reproduction leage sliveries avel/Per Diem Airfare Hotel Meals Car Rental	")	50 1 1 13000 1 8 8 8	Set Set LS mile LS Round trip Night Day Day LS	OTAL	OTHER DIRI	ECT EXPENSES	
Final PS&E (354 Sheets - 11"x17" Final PS&E (354 Sheets - mylar fu Misc. Reproduction leage sliveries avet/Per Diem Airfare Hotel Meals Dar Rental fice Expense	")	50 1 1 13000 1 8 8 8 8	Set Set LS mile LS Round trip Night Day Day LS	OTAL	OTHER DIR	ECT EXPENSES [
Final PS&E (354 Sheets - 11"x17" Final PS&E (354 Sheets - mylar fu Misc. Reproduction leage sliveries avet/Per Diem Airfare Hotel Meals Dar Rental fice Expense	")	50 1 1 13000 1 8 8 8 8	Set Set LS mile LS Round trip Night Day Day LS			ECT EXPENSES	
Final PS&E (354 Sheets - 11"x17" Final PS&E (354 Sheets - mylar fu wisc. Reproduction leage viliveries avel/Per Diem Airfare Hotel Meals Car Rental fice Expense JTSIDE SERVICES (w/o fee) COMPANY uirre & Associates	")	50 1 1 13000 1 8 8 8 8 8	Set Set LS mile LS Round trip Night Day Day LS		OTHER DIRI		
Final PS&E (354 Sheets - 11"x17" Final PS&E (354 Sheets - mylar fu Misc. Reproduction leage aliveries avel/Per Diem Airfare Hotel Meals Car Rental ffice Expense UTSIDE SERVICES (w/o fee) COMPANY quirre & Associates accon Consultants, Inc. elix Environmental Planning, Inc.	") Jll size)	50 1 1 13000 1 8 8 8 8 8	Set Set LS mile LS Round trip Night Day Day LS				
Final PS&E (354 Sheets - 11"x17" Final PS&E (354 Sheets - mylar fu Misc. Reproduction leage sliveries avet/Per Diem Airfare -fotel Meals Dar Rental fince Expense UTSIDE SERVICES (w/o fee) COMPANY juniting & Associates secon Consultants, Inc. elix Environmental Planning, Inc. elixs Co (Utility) mon Wong Engineering	DBE	50 1 1 13000 1 8 8 8 8 8	Set Set LS mile LS Round trip Night Day Day LS	t E	XPENSES	*183,327.45	
Final PS&E (354 Sheets - 11"x17" Final PS&E (354 Sheets - mylar fu Misc. Reproduction leage sliveries avet/Per Diem Airfare Hotel Meals Dar Rental fice Expense UTSIDE SERVICES (w/o fee) COMPANY furre & Associates recon Consultants, Inc. flix Environmental Planning, Inc. tsco (Utility) mon Wong Engineering rerland, Pacific and Cutler, Inc. (Ro	DBE	50 1 1 13000 1 8 8 8 8 1	Set Set LS mile LS Round trip Night Day Day LS	t E	XPENSES	TOTAL	\$183,327.45
Final PS&E (354 Sheets - 11"x17" Final PS&E (354 Sheets - mylar fu Misc. Reproduction leage sliveries avet/Per Diem Airfare Hotel Meals Car Rental fice Expense UTSIDE SERVICES (w/o fee) COMPANY utirre & Associates accon Consultants, Inc. elix Environmental Planning, Inc. elixs co (Utility) mon Wong Engineering verland, Pacific and Cutler, Inc. (Ro	DBE	50 1 1 13000 1 8 8 8 8 1 1 LABOR	Set Set LS mile LS Round trip Night Day Day LS	t E	XPENSES	*183,327.45	\$183,327.45
Final PS&E (354 Sheets - 11"x17" Final PS&E (354 Sheets - mylar fu Misc. Reproduction leage aliveries avel/Per Diem Airfare Hotel Meals Car Rental ffice Expense UTSIDE SERVICES (w/o fee) COMPANY quirre & Associates accon Consultants, Inc. elix Environmental Planning, Inc. atsco (Utility) mon Wong Engineering verland, Pacific and Cutler, Inc. (Ro	DBE	50 1 1 13000 1 8 8 8 8 1 1 LABOR	Set Set LS mile LS Round trip Night Day Day LS MULTIPLIEF \$107,986.3	t E	TOTAL OUTS	**TOTAL	\$183,327.45
Final PS&E (354 Sheets - 11"x17" Final PS&E (354 Sheets - mylar fullistic Misc. Reproduction ileage eliveries avel/Per Diem Airfare Hotel Meals Car Rental ffice Expense UTSIDE SERVICES (w/o fee)	DBE	50 1 1 13000 1 8 8 8 8 1 1 LABOR	Set Set Set LS mile LS Round trip Night Day Day LS MULTIPLIEF \$107,986.3	7	TOTAL OUTS	*183,327.45	\$183,327.45
Final PS&E (354 Sheets - 11"x17" Final PS&E (354 Sheets - mylar fu Misc. Reproduction leage sliveries avel/Per Diem Airfare Hotel Meals Car Rental ffice Expense UTSIDE SERVICES (w/o fee) COMPANY guirre & Associates accon Consultants, Inc. selix Environmental Planning, Inc. staco (Utility) mon Wong Engineering verland, Pacific and Cutler, Inc. (Ro	DBE	50 1 1 13000 1 8 8 8 8 1 1 LABOR	Set Set Set LS mile LS Round trip Night Day Day LS MULTIPLIEF \$107,986.3	7	TOTAL OUTS	\$183,327.45 SIDE SERVICES \$79,945.93	\$183,327.45 \$98,278.67

COMPANY:		SCOPE OF WORK	(DATE:	REV:
Kimley-Horn and Associates, Inc.		Bid / Award Sup	-			6/24/2009	1
ROJECT:						MILESTONE/PHASE	E/PROJECT SUMI
Van Buren Boulevard Interchange	on I-215 Reco	nstruction Project				Phase III	
DIRECT LABOR							
PERSONNEL		UNCTION	HOURS		RATE	AMOUNT	
Dennis Landaal, PE	Project Man	ager	10	@	\$67.00	\$670.00	
Alan Tubosnick	Senior Engi	neer	36	@	\$50.00	\$1,800.00	
Mike Ross, PE	QC/ Senior	Engineer					
Darren Adrian	QC/ Senior	Engineer					
Sam McWhorter, PE	Senior Drain	nage Engineer					
Jon Collins, PE	Senior Traff	ic Engineer				2	
Jason Valencia, PE	Project Eng	ineer	118	@	\$45.00	\$5,310.00	
	Engineer			~	\$36.00	, , ,	
*	Assistant Er	ngineer	140	@	\$32.00	\$4,480.00	
	CADD Design	-	44	@	\$38.00	\$1,672.00	
	Admin Supp	•	36	@	\$23.00	\$828.00	
					420.00	***	
		TOTAL HOURS	384		TOTAL	DIRECT LABOR	\$14,760.00
MULTIPLIERS							
ESCALATION @		(Rate)			**		
OVERHEAD @	196.76%	(of Total Direct La		,		\$29,041.78	
PAYROLL ADDITIVES @		(of Total Direct La	abor + Escala	ation)	TOTA	LMUTIDUEDO	600.044.70
					IOIA	L MULTIPLIERS	\$29,041.78
OTHER DIRECT EXPENSES	· Billed at	Actual Cost •••					
Alleges ITEM		QUANTITY	UNIT		UNIT COST	AMOUNT	
Mileage Deliveries		1200	Mile	@			
		4		_	\$0.49	\$588.00	
		1	LS	@	\$500.00	\$500.00	
/lisc		1 1 1		_			
Misc		1	LS LS	@	\$500.00 \$1,000.00	\$500.00 \$1,000.00	
Misc Office		1	LS LS	@ @	\$500.00 \$1,000.00 \$310.96	\$500.00 \$1,000.00	\$2,398.96
Misc Office DUTSIDE SERVICES (Wo fee)	- 12F	1 1	LS LS LS	TOTA	\$500.00 \$1,000.00 \$310.96	\$500.00 \$1,000.00 \$310.96	\$2,398.96
Misc Office DUTSIDE SERVICES (w/o fee) COMPANY	DRE	1	LS LS	TOTA	\$500.00 \$1,000.00 \$310.96	\$500.00 \$1,000.00 \$310.96	\$2,398.96
Office DUTSIDE SERVICES (w/o fee) COMPANY Aguirre & Associates	DBE	1 1	LS LS LS	TOTA	\$500.00 \$1,000.00 \$310.96	\$500.00 \$1,000.00 \$310.96	\$2,398.96
DUTSIDE SERVICES (w/o fee) COMPANY Aguirre & Associates Geocon Consultants, Inc.	DBE	1 1	LS LS LS:	@ @ @	\$500.00 \$1,000.00 \$310.96	\$500.00 \$1,000.00 \$310.96	\$2,398.96
DUTSIDE SERVICES (w/o fee) COMPANY Aguirre & Associates Geocon Consultants, Inc. Helix Environmental Planning, Inc.	DBE	1 1	LS LS LS	@ @ @	\$500.00 \$1,000.00 \$310.96	\$500.00 \$1,000.00 \$310.96	\$2,398.96
DUTSIDE SERVICES (w/o fee) COMPANY Aguirre & Associates Geocon Consultants, Inc. Helix Environmental Planning, Inc.	DBE	1 1	LS LS LS:	@ @ @	\$500.00 \$1,000.00 \$310.96	\$500.00 \$1,000.00 \$310.96	\$2,398.96
DUTSIDE SERVICES (w/o fee) COMPANY Aguirre & Associates Geocon Consultants, Inc. Helix Environmental Planning, Inc. Butsco (Utility)	DBE DBE	1 1	LS LS LS:	© © © TOTA	\$500.00 \$1,000.00 \$310.96	\$500.00 \$1,000.00 \$310.96	\$2,398.96
DUTSIDE SERVICES (w/o fee) COMPANY Aguirre & Associates Geocon Consultants, Inc. Helix Environmental Planning, Inc. Butsco (Utility) Simon Wong Engineering	DBE	1 1 1 LABOR \$1,035.00	LS LS LS:	© © © TOTA	\$500.00 \$1,000.00 \$310.96 AL OTHER DIRE EXPENSES \$100.00	\$500.00 \$1,000.00 \$310.96 ECT EXPENSES TOTAL \$3,152.99	\$2,398.96
DUTSIDE SERVICES (w/o fee) COMPANY Aguirre & Associates Geocon Consultants, Inc. Helix Environmental Planning, Inc. Butsco (Utility) Simon Wong Engineering	DBE	1 1 1 LABOR \$1,035.00	LS LS LS:	© © © TOTA	\$500.00 \$1,000.00 \$310.96 AL OTHER DIRE EXPENSES \$100.00 \$200.00	\$500.00 \$1,000.00 \$310.96 ECT EXPENSES TOTAL \$3,152.99	\$2,398.96 \$11,525.96
DUTSIDE SERVICES (w/o fee) COMPANY Aguirre & Associates Geocon Consultants, Inc. Helix Environmental Planning, Inc. Butsco (Utility) Simon Wong Engineering Overland, Pacific and Cutler, Inc. (R	DBE	1 1 1 LABOR \$1,035.00	LS LS LS:	© © © TOTA	\$500.00 \$1,000.00 \$310.96 AL OTHER DIRE EXPENSES \$100.00 \$200.00	\$500.00 \$1,000.00 \$310.96 ECT EXPENSES TOTAL \$3,152.99 \$8,372.97	
DUTSIDE SERVICES (Wo fee) COMPANY Aguirre & Associates Geocon Consultants, Inclelix Environmental Planning, Inc. Butsco (Utility) Simon Wong Engineering Overland, Pacific and Cutler, Inc. (R	DBE	1 1 1 LABOR \$1,035.00	LS LS LS MULTIPLIE \$2,017 \$4,814	© @ @ P P P P P P P P P P P P P P P P P	\$500.00 \$1,000.00 \$310.96 AL OTHER DIRE EXPENSES \$100.00 \$200.00 TOTAL OUTS	\$500.00 \$1,000.00 \$310.96 ECT EXPENSES TOTAL \$3,152.99 \$8,372.97	
DUTSIDE SERVICES (w/o fee) COMPANY Aguirre & Associates Geocon Consultants, Inc. Helix Environmental Planning, Inc. Butsco (Utility) Simon Wong Engineering Overland, Pacific and Cutler, Inc. (R	DBE	1 1 1 \$1,035.00 \$3,358.80 (of Total Outside	LS LS LS MULTIPLIE \$2,017 \$4,814	© © © TOTA R 999 117	\$500.00 \$1,000.00 \$310.96 AL OTHER DIRE EXPENSES \$100.00 \$200.00 TOTAL OUTS	\$500.00 \$1,000.00 \$310.96 ECT EXPENSES TOTAL \$3,152.99 \$8,372.97 SIDE SERVICES	
DUTSIDE SERVICES (Wo fee) COMPANY Aguirre & Associates Geocon Consultants, Inc. Helix Environmental Planning, Inc. Butsco (Utility) Simon Wong Engineering Dverland, Pacific and Cutler, Inc. (R FEES DUTSIDE SERVICES ADMIN FEE	DBE (C)	LABOR \$1,035.00 \$3,358.80 (of Total Outside:	LS LS LS MULTIPLIE \$2,017 \$4,814 Services & O	© © 0 TOTA TOTA 99 17 utside	\$500.00 \$1,000.00 \$310.96 AL OTHER DIRI EXPENSES \$100.00 \$200.00 TOTAL OUTS Services Fees	\$500.00 \$1,000.00 \$310.96 ECT EXPENSES TOTAL \$3,152.99 \$8,372.97 SIDE SERVICES \$4,380.18	
DUTSIDE SERVICES (Wo fee) COMPANY Aguirre & Associates Geocon Consultants, Inc. Helix Environmental Planning, Inc. Butsco (Utility) Simon Wong Engineering Dverland, Pacific and Cutler, Inc. (R FEES DUTSIDE SERVICES ADMIN FEE	DBE (C)	1 1 1 \$1,035.00 \$3,358.80 (of Total Outside	LS LS LS MULTIPLIE \$2,017 \$4,814 Services & O	© © 0 TOTA TOTA 99 17 utside	\$500.00 \$1,000.00 \$310.96 AL OTHER DIRI EXPENSES \$100.00 \$200.00 TOTAL OUTS Services Fees	\$500.00 \$1,000.00 \$310.96 ECT EXPENSES TOTAL \$3,152.99 \$8,372.97 SIDE SERVICES \$4,380.18 \$1,122.60	\$11,525.96
Misc Office OUTSIDE SERVICES (W/o fee)	DBE (C)	LABOR \$1,035.00 \$3,358.80 (of Total Outside:	LS LS LS MULTIPLIE \$2,017 \$4,814 Services & O	© © 0 TOTA TOTA 99 17 utside	\$500.00 \$1,000.00 \$310.96 AL OTHER DIRI EXPENSES \$100.00 \$200.00 TOTAL OUTS Services Fees	\$500.00 \$1,000.00 \$310.96 ECT EXPENSES TOTAL \$3,152.99 \$8,372.97 SIDE SERVICES \$4,380.18	

Kimley-Horn and Associates, Inc.	SCOPE OF WOR				DATE:	REV:
PROJECT:	Construction S	upport			6/24/2009	1 E/PROJ SUMMARY
Van Buren Boulevard Interchange	e on I-215 Reconstruction Project	t			Phase IV	E/PROJ SUMMARY
DIRECT LABOR		······································				-
PERSONNEL	FUNCTION	HOURS		RATE	AMOUNT	1
Dennis Landaal, PE	Project Manager	26	@	\$67.00	\$1,742.00	1
Alan Tubosnick	Senior Engineer	50	@	\$50.00	\$2,500.00	
Vike Ross, PE	QC/ Senior Engineer		•	φου.σσ	\$2,000.00	
Darren Adrian	QC/ Senior Engineer					
Sam McWhorter, PE	Senior Drainage Engineer					
Jon Collins, PE	Senior Traffic Engineer					
Jason Valencia, PE	Project Engineer	100	-	045.00	# 0.000.00	
Jason Valencia, FE	, ,	196	@	\$45.00	\$8,820.00	
	Engineer	400	_	\$36.00		
	Assistant Engineer	160	@	\$32.00	\$5,120.00	
	CADD Designer	260	@	\$38.00	\$9,880.00	
	Admin Support	24	@	\$23.00	\$552.00	
	TOTAL HOURS	716		TOTAL	DIRECT LABOR	\$28,614.00
MULTIPLIERS						
SCALATION @	(Rate)					
VERHEAD @						
AYROLL ADDITIVES @	196.76% (of Total Direct I				\$56,300.91	
	(of Total Direct I	Lanui + Escal	auon)	TOTA	L MULTIPLIERS	\$56,300.91
				1017	E MOETH LILING	ψου,ουυ.θ1
THER DIRECT EXPENSES	· · · Billed at Actual Cost · · ·					
ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT	
eproduction	. 1	LS	@	\$2,000.00	\$2,000.00	
leage	4000	Mile	@	\$0.49	\$1,960.00	i
						1
eliveries	1	LS	@	\$2,000.00	\$2,000.00	
eliveries isc	1 1		@	\$2,000.00 \$2,000.00		
eliveries fisc		LS			\$2,000.00	
Deliveries Misc	1	LS LS	@	\$2,000.00	\$2,000.00 \$2,000.00	
Deliveries Misc	1	LS LS	@	\$2,000.00 \$602.84	\$2,000.00 \$2,000.00	\$8,562.84
eliveries lisc ffice	1	LS LS	@	\$2,000.00 \$602.84	\$2,000.00 \$2,000.00 \$602.84	\$8,562.84
Deliveries Misc Office	1	LS LS LS	@ @ TOTA	\$2,000.00 \$602.84	\$2,000.00 \$2,000.00 \$602.84	\$8,562.84
eliveries flisc fuffice UTSIDE SERVICES (w/o fee)	1 1	LS LS	@ @ TOTA	\$2,000.00 \$602.84	\$2,000.00 \$2,000.00 \$602.84	\$8,562.84
UTSIDE SERVICES (w/o fee) COMPANY guirre & Associates	1	LS LS LS	@ @ TOTA	\$2,000.00 \$602.84	\$2,000.00 \$2,000.00 \$602.84	\$8,562.84
UTSIDE SERVICES (w/o fee) COMPANY guirre & Associates eocon Consultants, inc.	1 1 1 DBE	LS LS LS	@ @ TOTA	\$2,000.00 \$602.84	\$2,000.00 \$2,000.00 \$602.84	\$8,562.84
UTSIDE SERVICES (w/o fee) COMPANY guirre & Associates eocon Consultants, Inc. elix Environmental Planning, Inc.	1 1	LS LS LS	@ @ TOTA	\$2,000.00 \$602.84	\$2,000.00 \$2,000.00 \$602.84	\$8,562.84
UTSIDE SERVICES (w/o fee) COMPANY guirre & Associates eocon Consultants, Inc. elix Environmental Planning, Inc.	1 1 1 DBE	LS LS LS	@ @ TOTA	\$2,000.00 \$602.84	\$2,000.00 \$2,000.00 \$602.84	\$8,562.84
UTSIDE SERVICES (w/o fee) COMPANY guirre & Associates eocon Consultants, Inc. elix Environmental Planning, Inc. utsco (Utility)	1 1 1 DBE	LS LS LS MULTIPLIE	@ @ TOTA	\$2,000.00 \$602.84	\$2,000.00 \$2,000.00 \$602.84 ECT EXPENSES TOTAL \$4,299.28	\$8,562.84
UTSIDE SERVICES (w/o fee) COMPANY guirre & Associates eocon Consultants, Inc. elix Environmental Planning, Inc. utsco (Utility) mon Wong Engineering	1 1 1 LABOR DBE \$1,288.00 DBE \$8,956.80	LS LS LS	@ @ TOTA	\$2,000.00 \$602.84	\$2,000.00 \$2,000.00 \$602.84	\$8,562.84
UTSIDE SERVICES (Wo fee) COMPANY guirre & Associates eocon Consultants, Inc. elix Environmental Planning, Inc. utsco (Utility) imon Wong Engineering verland, Pacific and Cutler, Inc. (i	1 1 1 LABOR DBE \$1,288.00 DBE \$8,956.80	LS LS LS MULTIPLIE	@ @ TOTA	\$2,000.00 \$602.84 L OTHER DIRE EXPENSES \$500.00 \$800.00	\$2,000.00 \$2,000.00 \$602.84 ECT EXPENSES TOTAL \$4,299.28	\$8,562.84 \$26,893.86
UTSIDE SERVICES (W/o fee) COMPANY guirre & Associates eocon Consultants, Inc. elix Environmental Planning, Inc. utsco (Utility) imon Wong Engineering verland, Pacific and Cutler, Inc. (i	DBE \$1,288.00 DBE \$8,956.80	LS LS LS MULTIPLIE \$2,511 \$12,837	@ @ TOTA ER	\$2,000.00 \$602.84 LOTHER DIRE EXPENSES \$500.00 \$800.00 TOTAL OUTS	\$2,000.00 \$2,000.00 \$602.84 ECT EXPENSES TOTAL \$4,299.28 \$22,594.58	
DUTSIDE SERVICES (w/o fee) COMPANY Quirre & Associates Geocon Consultants, Inc. Idlix Environmental Planning, Inc. Idlix Environmental	1 1 1 DBE \$1,288.00 DBE \$8,956.80 R((of Total Outside	LS LS LS MULTIPLIE \$2,511 \$12,837	© © TOTA TOTA 28 .78	\$2,000.00 \$602.84 LOTHER DIRE EXPENSES \$500.00 \$800.00 TOTAL OUTS	\$2,000.00 \$2,000.00 \$602.84 ECT EXPENSES TOTAL \$4,299.28 \$22,594.58	
Deliveries Misc Diffice DUTSIDE SERVICES (w/o fee) COMPANY Aguirre & Associates Secon Consultants, Inc. Helix Environmental Planning, Inc. Simon Wong Engineering Dverland, Pacific and Cutler, Inc. (inc.) EEES DUTSIDE SERVICES ADMIN FEE MIMLEY-HORN AND ASSOCIATE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LS LS LS MULTIPLIE \$2,511 \$12,837	© © TOTA TOTA 28 .78 Multiplie	\$2,000.00 \$602.84	\$2,000.00 \$2,000.00 \$602.84 ECT EXPENSES TOTAL \$4,299.28 \$22,594.58	
DUTSIDE SERVICES (w/o fee) COMPANY Quirre & Associates Geocon Consultants, Inc. Idlix Environmental Planning, Inc. Idlix Environmental	1 1 1 DBE \$1,288.00 DBE \$8,956.80 R((of Total Outside	LS LS LS MULTIPLIE \$2,511 \$12,837	© © TOTA TOTA 28 .78 Multiplie	\$2,000.00 \$602.84	\$2,000.00 \$2,000.00 \$602.84 ECT EXPENSES TOTAL \$4,299.28 \$22,594.58 SIDE SERVICES	
Deliveries Alisc Diffice DUTSIDE SERVICES (Wo fee) COMPANY Guirre & Associates Geocon Consultants, Inc. Ielix Environmental Planning, Inc. utsco (Utility) imon Wong Engineering overland, Pacific and Cutler, Inc. (inc.) EES UTSIDE SERVICES ADMIN FEE IMLEY-HORN AND ASSOCIATE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LS LS LS MULTIPLIE \$2,511 \$12,837	© © TOTA TOTA 28 .78 Multiplie	\$2,000.00 \$602.84	\$2,000.00 \$2,000.00 \$602.84 ECT EXPENSES TOTAL \$4,299.28 \$22,594.58 BIDE SERVICES \$8,491.49	
UTSIDE SERVICES (Wo fee) COMPANY Quirre & Associates eocon Consultants, Inc. elix Environmental Planning, Inc. atsco (Utility) mon Wong Engineering verland, Pacific and Cutler, Inc. (i	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LS LS LS MULTIPLIE \$2,511 \$12,837	© © TOTA TOTA 28 .78 Multiplie	\$2,000.00 \$602.84	\$2,000.00 \$2,000.00 \$602.84 ECT EXPENSES TOTAL \$4,299.28 \$22,594.58 BIDE SERVICES \$8,491.49 \$2,559.39	\$26,893.86

OMPANY:					i	
	SCOPE OF WOR			DATE:	REV:	
Simon Wong Engineering	Bridge Enginee	ring Services		6/24/2009	1	
	nange on I-215 Reconstruction Pr	roject		MILESTONE/PHAS All Phases	SE/PROJ SUMMARY:	
DIRECT LABOR	 					
PERSONNEL	FUNCTION	HOURS	RATE	AMOUNT]	
Mark Creveling	Project Manager		\$88.30	\$8,300.20	1	
Andrew Sanford	Senior Bridge Engineer		ž \$55.98			
James Frost	Senior Bridge Engineer		\$66.10	\$1,586.40		
Craig Shannon Ty Brittan	Associate Bridge Engineer	297 @		\$12,782.88		
ry Dilitali	Senior Tech	450 @	3 \$52.36	\$23,562.00		
MULTIPLIERS ESCALATION @ DVERHEAD @ PAYROLL ADDITIVES @ OTHER DIRECT EXPENSES	TOTAL HOURS (Rate) 102.17% (of Total Direct L 41.16% (of Total Direct L		n) n)	\$89,558.83 \$36,079.49 AL MULTIPLIERS	\$87,656.68 \$125,638.32	
ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT]	
S						
	1 1	LS @		\$17,000.00 \$1,500.00		
•		_				
		LS @	\$1,500.00		\$18,500.00	
Milage Costs		LS @	\$1,500.00	\$1,500.00	\$18,500.00	
Reproduction Costs Milage Costs DUTSIDE SERVICES (w/o fi	1 	LS @	\$1,500.00	\$1,500.00	\$18,500.00	
Milage Costs DUTSIDE SERVICES (w/o fi	1 	LS @	\$1,500.00	\$1,500.00	\$18,500.00	
Milage Costs DUTSIDE SERVICES (w/o fi	1 	LS @	\$1,500.00	\$1,500.00	\$18,500.00	
Ailage Costs DUTSIDE SERVICES (w/o fo	1 	LS @	\$1,500.00 FAL OTHER DIRE EXPENSES	\$1,500.00	\$18,500.00	
Ailage Costs DUTSIDE SERVICES (W/o for COMPAN	1 	LS @	\$1,500.00 FAL OTHER DIRE EXPENSES	\$1,500.00 ECT EXPENSES TOTAL	\$18,500.00	
Ailage Costs DUTSIDE SERVICES (W/o for COMPAN'	ee)	LS @	\$1,500.00 FAL OTHER DIRI EXPENSES TOTAL OUTS	\$1,500.00 ECT EXPENSES TOTAL SIDE SERVICES	\$18,500.00	
DUTSIDE SERVICES (W/o fi	pe) **LABOR** **IFEE @ (of Total Outside)	LS @ MULTIPLIER Services & Outs	\$1,500.00 FAL OTHER DIRE EXPENSES TOTAL OUTS ide Services Fee	\$1,500.00 ECT EXPENSES TOTAL SIDE SERVICES	\$18,500.00	
DUTSIDE SERVICES (W/o fi COMPAN' COMPAN' EES DUTSIDE SERVICES ADMIN	Pee) Y LABOR VEEE @ (of Total Outside UG 10.00% (of Total Direct L	LS @ MULTIPLIER Services & Outs	\$1,500.00 FAL OTHER DIRE EXPENSES TOTAL OUTS ide Services Fee	\$1,500.00 ECT EXPENSES TOTAL SIDE SERVICES \$21,329.50		
Ailage Costs DUTSIDE SERVICES (w/o fi	Pee) Y LABOR VEEE @ (of Total Outside UG 10.00% (of Total Direct L	LS @ MULTIPLIER Services & Outsi abor + Total Multi	\$1,500.00 FAL OTHER DIRE EXPENSES TOTAL OUTS ide Services Fee	\$1,500.00 ECT EXPENSES TOTAL SIDE SERVICES \$21,329.50	\$18,500.00 \$21,329.50	

Van Buren Boulevard Interchange on I-215 Reconstruction Project Value	ioc , QC/ Senior ef Englises \$52.00										MILESTONE/P Project Summa	MILESTONE/PHASE/PROJECT SUMMARY: Project Summary	
850.00 10 36 50 50 84 308 84 308 84 308 850.00 86 50 86 50													AMARY:
Perceived Service Se													
184 308 194 10 36 26 50 10 10 10 10 10 10 10 10 10 10 10 10 10		Senior Chainage Engineer	Serior Traffic Englineer E	Project Engineer	Engineer E	Ansietani Engineer	CADD Designer	Admin Support					TOTAL
184 308 10 36 26 50 Totals 220 394		7 I	4 1		\$36.00	-	4	\$23.00					
164 308 10 36 26 50 Totals 220 394				_						-	_		
10 36 26 50 Totals 220 394	51 133	54	181	108	1,038	1,544	2,465	200			-		6.958
26 50 Totals 220 394			-	118	-	140	44	36		-			384
Totals 220 394				196		160	260	24					716
220 394				-	-			-	-	-			
	51 133	54	181	1,115	1,038	1.844	2,769	260					8.058
Aguirre & Associates Summary													
													TOTAL
					_		-	-		-			
Geocon Consultants, Inc. Sunmary													
					<u>-</u>								TOTAL
				<u> </u>				_	_				
Helix Environmental Planning, Inc. Summary													
GADO / CIES Laidstoupe Laidstoupe CADO / CIES Designer Auditect			1.5	Sr Landscape Anthibed	OA-0C			1 m					TOTAL.
\$30.00 \$20.00 \$23.00				1	\$57,69	1							
Rithery Hillith's Commons				-				_		_			
200								(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)					
Markage(-			TOTAL
					-	-				-			
Simon Wong Engineering Summary													7
Project Sembor Bidge Sembor Biddys Amanger Engineer Engineer	(E)			Associate Bridge Sed	Section Texts				36 de				TOTAL
9 1				3	\$52.36	28							
0				120	450								1.605
Overland, Pacific, and Cutler (ROW) Summary													
AND LA		- 19		Sr. Project RM Manager M	RAW Project Manager Con	RW Consultant Co	R.W F.	Project Support			200		TOTAL
\$63,34 \$46,90 \$42,45				\$42.00		\$25.55	\$16.83 \$	\$16.87					
										_			

COMPANY: Kimley-Horn and Associates, Inc.	<u>5</u>						A. Company	r.	SCOPE OF WORK Final Plans, Specs & Fetimate	NRK Snecs & F	stimuste	DATE:	TE:	REVISION:	
рколест: Van Buren Boulevard Interchange on I-215 Reconstruction Project	ige on I-21	5 Reconst	ruction Pro	ject								WIL	ESTONE/PHASE/P	MILESTONE/PHASE/PROJECT SUMMARY: Phase 2	SUMMARY:
TASK	Project Manager	Senior Engineer	CC/ Senior Engineer	QC/Senior Engineer	Senior Drainage Engineer	Senior Traffic Engineer	Project Engineer	Engineer	Assistant Engineer	CADD	Admin Support	The control of the co		<u> </u>	TOTAL
Total Manhours	184	308	51	133	54	181	801	1,038	1,544	2,465	200				6,958
ARTICLE AII - PROJECT ADMINISTRATION	RATION														
A. Project Management															
Project Management Services	G	6									12	-			30
													-		
B. Budgeting															
Project Budgeting	2	2									2		-		9
G. Cost Accounting															
Project Cost Accounting	1	11									28	-			49
D. Scheduling															
Project Scheduling	2	2					13	,			22				21
E. Progress Reporting															
Progress Reporting	4	4					27				2	-			40
F. Contract Administration															
Contract Administration Services	36	36					17				7				96
PS&E Component Close Out	2	2					7				7				19
. Draft PS&E (95% Complete)			}									-			
Respond to Agency Review Comments	2	4	9		2	2	24		40		4		-		28
															_

COMPANY:	SCOPE OF WORK	DATE: REVISION:	
Kimley-Horn and Associates, Inc.	Final Plans, Specs & Estimate	6/24/2009	
PROJECT:		MILESTONE/PHASE/PROJECT SUMMARY:	
Van Buren Boulevard Interchange on I-215 Reconstruction Project		Phase 2	

TOTAL	15	29	6	123	125	220	124	35	46	129	117	11.	100	09	40	305	128	111	20	100	138
										1											
dia .																					
Admin Support												į į									
CADD	12	30	ω	4	40	80	9	20	24	40	22	55	09	12	20	135	64	55	4	20	26
Assistant Engineer		15		33	40	09	8	80	12	30	33	78	8	24	10	09	32	17	æ	30	30
Englineer	2	12	-	24	23	40	18	4	8	20	20	9	10	18		30		12	9	30	18
Project Engineer	-	9		17	121	20	11	7	2	11	16	12	80	ဖ	ဖ	30	20	-	2	10	18
Senjot Traffic. Engineer	- 1.3					4									4	24	4	œ			
Senior Drainage Engineer				2		4	m	-		-	14	10									
QC/Senior Engineer				4	2															4	œ
QC/ Senior Engineer		4								16				j				i			
Sonior Engineer				4	2	8	-			∞	∞		2			16	80	8		4	ω
Project Manager			_	7	~	4	_			4	4		_			10				2	
TASK	Index of Sheets	Typical Cross Sections	Key Map & Line Index	Layout	Profile and Superelevation Diagram	Construction Details	Temp Water Pollution Control Plan	Temp Water Pollution Control Details	Temp Water Pollution Control Quantities	Countour Grading	Drainage Plan	Drainage Profiles	Drainage Details	Drainage Quantities	Transportation Management Plan	Stage Construction and Traffic Handling Plan	Construction Area Signs	Pavement Delineation Plan	Pavement Delineation Quantities	Summary of Quantities	Sign Plans
			*		<u> </u>		F 0.	- 0	F 0	J	IJ	٦	٦	u	← a	o, 1	J	-	- 0	w)	۷,

COMPANY: Kimlev-Horn and Associates Inc.	no.								SCOPE OF WORK	ORK Choose & E	intimosto.		DATE:		REVISION:	
PROJECT: Van Buren Boulevard Interchange on I-215 Reconstruction Project	ange on I-21	5 Reconstru	uction Proje	ಕ					1011	apaca &	Silliate	-	MILESTONE/PHASE/PROJECT SUMMARY:	E/PHASE/PRO	JECT SUM	IMARY:
				2 X 8 8 3 7 7 10 10 10 10 10 10 10 10 10 10 10 10 10	1 122									מפס ע		
TASK	Project	Santor Engineer	QC/ Senior Engineer	GC/ Sentor Engineer	Senior Drainage Engineer	Senior Traffic Engineer	Project Engineer	Engineer	Assistant Engineer	CADD	Admin Support					TOTAL
Sign Details							2	2	4	12						20
Sign Quantities							-	က	4	2						10
Overhead Sign Details		8		8			10	20	41	40			- - 			100
Overhead Sign Quantities							2	9	ω	4						20
Retaining Wall Plans	8	16		22			38	20	11	173						384
Retaining Wall Details		e					10	13	26	11						129
Retaining Wall Quantites							Ø	9	26	13						64
Plant List							4	æ		4						16
Planting Plans							4	16		80						28
Imigation Plan							4	16		σ-						28
Sprinkler Schedule and Details							4	æ		4						16
Irrigation Quantities								8		4						12
Signal and Lighting	2	2				ω	2	80	8	12						42
Lighting and Sign Illumination	4	12				41	9	22	22	33						113
Structure Lighting Plan	2	2				4	7	4	4	9						23
Ramp Metering System	2	4				10	2	89	80	12						46
Communication Conduit		2				2	2	8	9	20						40
Electrical Service (Imigation)		2				2	-	4	4	7					<u> </u>	20
Electrical Details		2				4	2	80	80	16						40
Updated Technical Reports	2	2		80			16	24	40	24	24					140
Updated Specifications	4	80		20			16	16			20					84

									Ting Diese	SCUPE OF WORN					
PROJEĆT: Van Buren Boulevard Interchange on I-215 Reconstruction Project	hange on I-21	5 Reconstru	uction Proje	ğ					Tall Tall	Tital Flats, opers & Estimate	Sumare	-	MILESTONE/PHASE/PROJECT SUMMARY: Phase 2	ASE/PROJECT	SUMMARY:
														200	
TASK	Project Manager	Senior Engineer	QC/ Senior Engineer	QC/ Sanior Engineer	Senior Drainage Engineer	Senior Traffic Engineer	Project Engineer	Enginee	Assistant Engineer	CADD	Admin Support				TOTAL
Updated Construction Cost	4	80					24	64	49	24					145
Constructability Review / Coordination	15	15	10	70			24			4	4				
Drafting Standard and CADD Compliance							5			40					
J. Final PS&E (Final Documents for RTL)	·RTL)														
Respond to Agency Review Comments	8	4	9		2	2	24		04		8			-	
Title Sheet								-		4					
Index of Sheets							-	2	-	80					
Typical Cross Sections	2						5	10	12	20					
Key Map & Line Index								-		4					
Layout	2	2	2	7		_	13	92	22	30					
Profile and Superelevation Diagram	-	-	1	2			4	18	32	8					
Construction Details	2	4	7	4	2	2	16	24	40	64					160
Temp Water Pollution Control Plan	2	3					0	5	22	44					
Temp Water Pollution Control Details							2	2	သ	20					
Temp Water Pollution Control Quantities					,		2	-C2	9	m					
Countour Grading	2	4	4	ဖ			O)	13	22	56					
Drainage Płan	2	4			5		13	91	26	18					
Drainage Profiles		4	-		9		o	4	22	90					
Drainage Details		2					9	σ.	16	20					
Drainage Quantities							ည	4	19	10					
Transportation Management Plan		က					Ŋ		80	16					

PROJECT:									Final Plans	Final Plane Space & Estimate	oter	300	8/34/3000	REVISION:	
Van Buren Boulevard Interchange on I-215 Reconstruction Proje	ange on I-21	5 Reconstr	uction Proje	ect					2	, opera a com	o o	MILESTC	MILESTONE/PHASE/PROJECT SUMMARY: Phase 2	ROJECT SUI	WMARY:
TASK	Project Manager	Senior Engineer	GC/ Senior Engineer	ac/senior Engineer	Senior Uralnage Enginner	Serilor Traffic Engineer	Project	Engineer	Assistant Engineer	CADD A	Admin Support		594		TOTAL
Stage Construction and Traffic Handling Plan	80	16				18	24	24	09	108					258
Construction Area Signs		2				-	S		00	91					32
Pavement Delineation Plan		4		-		ω	60	o	13	44		+-			888
Pavement Delineation Quantities							2	2	9	ю					16
Summary of Quantities	2	4		2			80	24	24	91	-				80
Sign Plans		4		-		80	6	O	13	44					88
Sign Details							-	2	8	10					16
Sign Quantities							-	7	6	8		-			80
Overhead Sign Details		4				ω	80	16	12	32	ļ 				80
Overhead Sign Quantities							2	5	9	6	-				16
Retaining Wall Plans	2			9			10	12	19	43					96
Retaining Wall Details				-			က	ю	Ø	19				 	32
Retaining Wall Quantites							2	လ	9	8					16
Plant List							-	2		Ø					G
Planting Plans							σ	18		62					68
Irrigation Plan							0	18		62					68
Sprinkler Schedule and Detaits							-	2		ပ					6
Irrigation Quantities							2	8		1					16
Signal and Lighting	2					9	2	9	9	10					32
Lighting and Sign Illumination	വ					18	4	18	18	26					88
				_		-									

COMPANY:								<u>(0) 1</u>	SCOPE OF WORK	SCOPE OF WORK	o se	DATE:	E: 8/24/2019	REVISION	
Kimley-Hom and Associates, Inc. PROJECT:	JC.	£	C						100	Shees & C	on in a control	MILE	MILESTONE/PHASE/PROJECT SUMMARY: Phase 2	IPROJECT SI	JMMARY:
Van Buren Boulevard Interchange on I-215 Reconstruction Project	nge on I-21	5 Keconsti	uction Proj	200											
TASK	Project Manager	Sentor Engineer	QC/ Senior Engineer	GC/ Serior Engineer	Senior Drainage Engineer	Senlor Traffic Engineer	Project Engineer	Engineer	Assistant Engineer	CADD Designer	Admin Support	25.5		25 25 25 25 25 25 25 25 25 25 25 25 25 2	TOTAL
Ramp Metering System	4					9	2	9	g	10					35
Communication Conduit						6	2	9	5	16					32
Electrical Service (Irrigation)						8	-	3	ဗ	မ					16
Electrical Datails						m	2	9	Ø	13					30
Updated Specifications		2		4		2	80				24				40
Updated Construction Cost				4			80	20	40	ھ					80
Construction Staking Package		4					16	40	06	24	80				182
Resident Engineer's Pending File		4					ω		16	80	40		-		76
Contract Documents Ready to	9						8	12	24	40	2				92

Kimley-Horn and Associates, Inc.				<u>s</u> O	SCOPE OF WORK Construction Support	/ORK on Supp(ŗ.			DATE: 6/24/2	RE 009	REVISION:	
ProJect: Van Buren Boulevard Interchange on I-215 Reconstruction Project	on I-215 Re	constru	ction Pr							MILESTONE	EPHASEIPRO Phase 4	MILESTONE/PHASE/PROJECT SUMMARY: Phase 4	نز
TASK	Project Manager	Senior r Engineer	er Eng	Project Engineer	Assistant Engineer	CADD	Admin Support					TOTAL	ي ا
Total Manhours	26	i	20		160	260	24						716
ARTICLE AVII - CONSTRUCTION SUPPORT PHASE	ORT PHASE												
Pre-Construction Meeting	-	9	9				-	-					2
Respond to Contractor RFIs	4		40	80	120	120	4					m	368
Shop Drawing Review			4	24	40								89
Job Site Visits (12)				48			4						52
As-Built Plans	ω			24		120						-	152
Construction Component Close Out	80			20		20	16						25
								-			-		1
-													
	-		_										
			-										
												<u> </u>	
		_											1

DATE: REVISION: 6/24/2009 1 MILESTONEPHASE/PROJECT SUMMARY: Dass 6	TOTAL											
REVISION: 1 JPROJECT SU					-			_				
NEIPHASEIP	- I as											
DATE: 6/24 MILESTO	ani.											
								· \				
	Admin		-									
WORK	Assistant CADD Engliner											
SCOPE OF WORK <not used=""></not>	Assistant											
	gineer								1			
tion Proje	Project Engineer											
econstruc	Senior Engineer											
1-215 Re	Project Manager											
s, Inc. hange or												
company: Kimley-Horn and Associates, Inc. PROJECT: Van Buren Boulevard Interchange on I-215 Reconstruction Project		nhours							 [
nn and A	TASK	Total Manhours							i			
company: Kimley-Ho PRoJECT: Van Burer		-										

PROJECT:						Bridge E	ngineering	Bridge Engineering Services					6/24/	5000	NEVISION.	
Van Buren Boulevard Interchange on	hange on		construct	1-215 Reconstruction Project)						MILESTON	MILESTONE/PHASE/PROJECT SUMMARY: All Phases	OJECT SUN	MMARY:
TASK	Project Manager	Sanior Bridge Engineer	Sentor Britige Engineer	Associate Bridge Engineer	Senior Tach							2,000				TOTAL
Total Manhours	98		24	297	450											1,605
ARTICLE AIV - STRUCTURES																
A. Not Used											-					
C. Structural Design and Calculations	SHO								-		-					
Complete Structural Design									}		-					
D. Independent Check and Quality Control	Control								-		-					
Perform Structures Independent Check and QC																
E. Structures Specifications & Estimate	mate										-					
Develop Preliminary Specs and Estimate										-						
F. Initial Structure PS&E (65% Unchecked Plans)	hecked Plan	(§														
Prepare 65% Unchecked PS&E																
G. Intermediate Structure PS&E (90% Checked	0% Checked	Plans)													Ī	
Prepare 90% Checked PS&E	40	240	8	155	220									-	T	663
H. Draft Final Structure PS&E (95%)																
Prepare 95% PS&E	.30	140	80	82	110											370
I. Final Structure PS&E																
Prepare Final PS&E	24	140	8	09	120					-						352
ARTICLE AVI - CONSTRUCTION BIDDING	N BIDDING	PHASE														
Respond to Contractor RFIs (20 RFIs)		09								-	-				F	9
ARTICLE AVII - CONSTRUCTION SUPPORT PHASE	UPPORT PI	HASE														
Respond to Contractor RFIs		80														80
Shop Drawing Review	1	00	1									 	The state of the s		Ī	