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





FROM: TLMA - Transportation Department

SUBMITTAL DATE:

July 19, 2012

SUBJECT: Amendment No. 1 to the Engineering Services Agreement between the County of Riverside and RBF Consulting for improvements to the existing interchange at

Jefferson Street and Interstate 10

RECOMMENDED MOTION: That the Board of Supervisors:

- 1. Approve Amendment Number 1 to the Engineering Services Agreement between the County of Riverside and RBF Consulting (Contract No. 10-09-008 A1), and;
- 2. Authorize the Chairman of the Board to execute the same.

BACKGROUND: On October 5, 2010, the Board of Supervisors executed an engineering services agreement between Riverside County Transportation Department and RBF Consulting

Juan C. Perez

Director of Transportation and Land Management

(Continued On Attached Page)

FINANCIAL

Current F.Y. Total Cost:

\$ 4,026,140

In Current Year Budget:

Yes No

DATA

Departmental Concurrence

FORM APPROVED COUNTY COUNSEL

Current F.Y. Net County Cost:

Annual Net County Cost:

Budget Adjustment: \$0 For Fiscal Year: \$0

2012/13

SOURCE OF FUNDS: CVAG TUMF (100%)

Positions To Be Deleted Per A-30

There are no General Funds used on this project

Requires 4/5 Vote

C.E.O. RECOMMENDATION:

APPROVE

Tina Grande

County Executive Office Signature

MINUTES OF THE BOARD OF SUPERVISORS

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

Aves:

Buster, Tavaglione, Stone, Benoit and Ashley

Navs:

None

Absent:

None

Date:

July 31, 2012

XC:

Transp.

Kecia Harper-Ihem

Dep't Recomm.:

Policy

X

Consent

Policy

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Exec. Ofc.:

Prev. Agn. Ref. 10/05/10 (3.32)

District: 4/4

Agenda Number:

ATTACHMENTS FILED

WITH THE CLERK OF THE BOARD

The Honorable Board of Supervisors

RE: Amendment No. 1 to the Engineering Services Agreement between the County of Riverside and RBF Consulting for improvements to the existing interchange at Jefferson Street and Interstate 10

July 19, 2012

Page 2 of 3

for the Jefferson Street/I-10 Interchange project to prepare an environmental document. The environmental document is nearly complete and it is now desired to begin the design phase of the project.

The Jefferson Street/I-10 Interchange project is one of Coachella Valley Association of Governments (CVAG) and the City of Indio's priority projects. In order to expedite project delivery and try to take advantage of the historically low construction bid climate that we see currently, it became necessary to have the final design phase of the project commence prior to the completion of the preliminary engineering and environmental phases. Based upon consultant's knowledge of the project, the work they have done during the environmental and preliminary engineering phases and the overlapping of the final design phase, it is recommended that RBF peform final design for this project rather than bringing in another firm to get up to speed at increased costs and schedule delays.

Amendment 1 to the Engineering Services Agreement is now required to: complete and include scope changes to the preliminary engineering and environmental documents; extend the term of the agreement to December 31, 2017; and to add the tasks and budget required to prepare the final design and provide bid support and construction support for the construction of the project.

Additional services for the preliminary engineering and environmental phases of the project include:

- Revision to the Traffic Impact Analysis using an alternate methodology for traffic forecasting that better reflects the detailed land use plans and developments within the cities of La Quinta and Indio, as required by Caltrans.
- Preparation of Geometric Approval Drawings (GAD's) which was not anticipated in the PA/ED phase of the original scope, are now required by Caltrans
- Preparation of Supplemental Fact Sheets for Exceptions to Design Standards as identified through the GAD development.
- Cultural Field work and Data Recovery

A more detailed scope of services for the PA/ED phase as well as the scope and budget for new services for the PS&E, Bid and Construction Support phases is provided in Attachment A.

Amendment 1, as negotiated by the Transportation Department, increases the budget for the described services and also includes a \$375,000 contingency amount to be used only with prior written approval from the Director of Transportation. The project budget is summarized below:

Budget Summary:

| Original Contract | \$ 98 | 51,659 (incl. | \$125,000 co | ntingency) | |
|-----------------------------------------|---------|---------------|--------------|------------|--|
| Amendment 1 | | | | | |
| Preliminary Engineering & Environmental | \$ 76 | 68,072 | | | |
| Final Design and Construction Support | \$ 3,00 | 08,067 | | | |
| Contingency | \$ 25 | 50,000 | | | |
| Total Amendment | \$ 4,9 | 77,798 | | | |
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I-10/Jefferson Street Interchange Project

AMENDMENT NO. 1

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AMENDMENT TO AGREEMENT BETWEEN

THE COUNTY OF RIVERSIDE

and RBF CONSULTING Contract No. 10-09-009-12 Riverside Co. Transportation

THIS AMENDMENT NO. 1 (hereinafter the "Amendment") to an agreement is made and entered into as of this 2012, by and between the County of Riverside, a political subdivision of the State of California (hereinafter the "COUNTY"); and RBF Consulting (hereinafter "ENGINEER").

RECITALS

- A. COUNTY and ENGINEER have entered into an agreement entitled "Engineering Services Agreement for Jefferson Street Interchange Project between County of Riverside Transportation Department and RBF Consulting" that is dated October 5, 2010 (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 a Project Approval/Environmental Document (PA/ED).
- B. It is now desired to amend the scope and increase the contract budget of the Agreement to include: additional services for the PA/ED phase; preparation of Plans, Specification, and Estimates (PS&E); Bid support; and Construction support services. The term of the agreement is also modified in order to provide these additional services.

AGREEMENT

NOW, THEREFORE, in consideration of the mutual covenants hereinafter contained, the parties agree as follows:

1. Article VI, Subsection B is modified to reflect a new contract total amount of \$4,977,798.20 and is modified for the following consultants as follows:

| • | RBF Consulting | \$ 3 | 3,596,536.21 |
|---|-----------------------|------|--------------|
| • | POWER Engineers | \$ | 180,592.93 |
| • | LSA Associates, Inc. | \$ | 43,604.25 |
| • | Earth Mechanics, Inc. | \$ | 225,969.18 |
| • | Applied Earthworks | \$ | 485,021.39 |
| • | Bonterra | \$ | 24,494.24 |
| • | Green Communications | \$ | 46,580.00 |

| 1 | APPROVALS | |
|----|-------------------------------------------------|----------------------------------------------------------------------------------|
| 2 | COUNTY Approvals | ENGINEER Approvals |
| 3 | RECOMMENDED FOR APPROVAL: | ENGINEER: |
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| 5 | | |
| 6 | Dated: 7/12/12 | R. B. Cicio Dated: 5/7/201 |
| 7 | JUAN C. PEREZ | R.B. Craig Dated: 5/7/2010 Ronald B. Craig PRINTED NAME Senior Vice President |
| 8 | Director of Transportation | PRINTED NAME |
| 9 | | TITLE |
| 10 | APPROVED AS TO FORM: | ENGINEER: |
| 11 | PAMELA J. WALLS | |
| 12 | | |
| 13 | Pous la RY vitos Dated: 7/16/12 | Dated: |
| 14 | By Deputy | |
| 15 | | PRINTED NAME |
| 16 | APPROVAL BY THE BOARD OF SUPERVISORS | TITLE |
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| 18 | 2/1)/ | |
| 19 | Dated: JUL 31 2012 | |
| 20 | JOHN TAVAGLIONE | |
| 21 | Chairman, Riverside County Board of Supervisors | |
| 22 | | |
| 23 | ATTEST: | |
| 24 | 1/4141.00.011 | |
| 25 | Dated: JUL 31 2012 | |
| 26 | KECIA HARPER-IHEM | |
| 27 | Clerk of the Board | |
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ATTACHMENT A - SCOPE OF SERVICES

PHASE 1A - PRELIMIARY ENGINEERING

2.0 Traffic Analysis and Study

The original agreement included the preparation of a Traffic Study utilizing the Riverside Traffic Analysis Model (RIVTAM) output data for the long-range volumes. Following the initial data runs of the RIVTAM model, the output information did not exhibit reasonable growth in the area for the given forecast population, household and employment input data. COUNTY and California Department of Transportation (Caltrans) staff decided that the volumes generated by the model in this area would be not used, and the Engineer shall develop future volumes based on land use growth and other socio-economic data utilized by the RIVTAM model.

ENGINEER shall develop the future long-range traffic volumes for each of the project study scenarios for use in the originally scoped Traffic Study in accordance with the following:

- Coordinate with COUNTY, City of Indio and City of La Quinta staff to identify likely developments between the current condition and the year 2036.
- ENGINEER will review the applicable General Plan Land Use documents, Conceptual Specific Plans,
 Specific Plans, Master Plans, etc. for land use information in both the City of Indio and La Quinta to identify all vacant or underutilized land in the influence area.
- ENGINEER will prepare a summary of likely development within the influence area for agency review and concurrence.
- Following concurrence of the underlying land use assumptions and development potential with prior to the
 year 2036, ENGINEER shall prepare a forecasted traffic generation of the land uses and assignments to
 the local roadway system for the morning and afternoon peak hours and for daily traffic conditions.
- ENGINEER will also provide the traffic assignment associated with likely land development to be added to existing conditions traffic volumes to derive year 2036 traffic volumes.
- ENGINEER will derive the Year 2016 traffic volumes through an interpolation between year 2010 and year 2036 traffic volumes.
- Following the above mentioned tasks, ENGINEER will summarize the results and distribute a Traffic
 Volume Derivation Memorandum to Caltrans, COUNTY, and City of Indio staff for review and
 concurrence. One round of revisions to the traffic volume memorandum is anticipated.

 ENGINEER prepared an Adjacent Interchange Memorandum to justify performing operational analysis of the adjacent interchange is not necessary. This effort developed a qualitative approach to justifying operational analysis of the intersections at the Washington Avenue and Monroe interchanges. ENGINEER coordinated with Caltrans Traffic Operations, Design Oversight, FHWA Liaison, and FHWA to obtain approvals of the memorandum. ENGINEER analyzed available data and qualitatively concluded the operational analysis is not necessary due to the existing interchange spacing, and existing and proposed improvements at Washington Avenue and Monroe interchanges, respectively.

5.19 Geometric Approval Drawings

ENGINEER will prepare the Geometric Approval Drawings (GAD) at a scale of 1" = 50'. The GADs will be prepared according to Caltrans District 8 GAD guidelines to establish the approved scope relative to the geometric project features identified in the selected alternative from the Final Project Report. This effort provides equivalent detail to PS&E requirements for Cross Sections, Layouts, Profiles, and Superelevation Diagrams.

Approval will be obtained from Caltrans Offices of Traffic Operations and Design, and HQ Geometric Reviewer.

Up to three submittals (two review cycles) of the GADs is anticipated for Caltrans approval.

The GAD will include existing topographic and planimetric mapping, approximate right-of-way acquisition lines, center lines, calculated geometric layouts, typical sections, and a preliminary Title Sheet. ENGINEER will design roadway geometry including horizontal and vertical geometry for ramps, connectors and cross streets, including profile and superelevation diagrams. Profiles and superelevation diagrams will be provided for the areas of mainline widening based on aerial topographic mapping and record drawing information. Conceptual grading utilizing 1:2 or 1:4 slopes will be developed to establish preliminary right-of-way limits. Typical cross sections will be prepared to illustrate lane and shoulders in the lane configurations and other basic cross sectional data. The GAD will also provide detail indicating pavement delineation, truck turning radii, and traffic volumes.

5.20 Supplemental Fact Sheets for Exception to Design Standards

Exceptions to advisory and mandatory design standards were prepared during the PA/ ED phase of this project for design exceptions common to all of the build alternatives. During GAD development, refined design elements will highlight additional non-standard design elements. ENGINEER will prepare Supplemental Fact Sheets

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detailing nonstandard design elements of the preferred alternative. These will be prepared in close coordination with and reviewed by Caltrans. Revisions will be made as appropriate and the final design exception documentation will be prepared. This task assumes the Fact Sheet preparation for five (5) design exceptions.

PHASE 1B - ENVIRONMENTAL DOCUMENT

4.5 **Noise Impact Analysis**

ENGINEER will prepare a work plan for the Caltrans District for their review and approval by outlining the methods and procedures in preparing the Noise Impact Analysis (NIA). An exhibit will be prepared to show the proposed monitoring and receptor locations in the project area. In addition, one field meeting or work plan meeting is anticipated.

ENGINEER will also revise the NIA consistent with the Caltrans Traffic Noise Analysis Protocol (May 2011), Technical Noise Supplement (TeNS), and the report format provided in the Standard Environmental Reference (SER) website.

Ambient noise level measurements will be re-conducted to establish the existing noise environment at representative outdoor frequent human use areas within the project area. Short-term (15-minute) noise level measurements will be made at up to 9 locations with concurrent traffic counts to document the existing noise environment and to calibrate the traffic noise model. Observations of other noise sources, barriers, terrains, building heights, and other site specific information will be noted during each measurement period.

Noise impacts from construction sources will be reevaluated for the closest noise-sensitive receptor. The construction noise impact will be evaluated in terms of hourly equivalent sound level (Leg) and the frequency of occurrence at adjacent sensitive locations. Analysis requirements will be based on the sensitivity of the area and the Noise Ordinance specifications of the City and Caltrans.

The Federal Highway Administration (FHWA) Traffic Noise Model (TNM) Version 2.5 will be used to incorporate the latest traffic volumes projected in the traffic study to evaluate potential traffic noise impacts associated with Existing, Future No Build, and two build Alternatives. It is anticipated that Caltrans will review and approve the

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TNM files prior to the submittal of the first draft NIA. Traffic noise impacts and noise abatement measures (sound barriers) will be reevaluated to achieve traffic noise reductions by 5 A-weighted decibels (dBA) or more and must achieve a design goal that would provide at least a 7 dBA noise level reduction at one or more receptors, as required to be feasible. The total reasonable allowance for each sound barrier will be recalculated based on \$55,000 per benefited receptor.

4.26 **Public Outreach and Communication**

ENGINEER will provide public outreach and communication during the design phase of the project.

4.27 Cultural Field Work/Data Recovery

Except as provided herein, all tasks, work rates, levels of effort, and job performance standards shall be as set forth in the Project's Data Recovery Plan and Phase III Proposal (DRP/PIII; Moratto 2008a, as revised in December 2011). In brief, the DRP/PIII describes how FHWA will resolve the undertaking's adverse effects on the identified historic property by recovering an adequate sample of archaeological data and realizing the information potential of those data that otherwise would be lost. This will be accomplished by the program of field excavations, laboratory studies, analytic work, and reporting specified in the DRP/PIII.

The DRP/PIII identifies many tasks that must be performed to implement Stipulations XI-XVI of the PA and, concomitantly, to comply with CEQA/NEPA by mitigating the Project's impacts on historical resources. These tasks are to be done either during the pre-construction phase or the construction phase (Phases III.A and III.B, respectively) of Project development. Within each of these phases, tasks are assigned variously to one of six sub-phases: (1) pre-field work; (2) field investigations; (3) laboratory work; (4) special studies and data analysis; (5) preparation of the Data Recovery Report; and (6) completion of other deliverables (Moratto 2008a:110-116).

- All Phase III.A pre-field work related to CA-RIV-6896;
- All other Phase III.A tasks, as described in the DRP/PIII, including field investigations, laboratory work, special studies and data analysis, and preparation of a Data Recovery Report for CA-RIV-6896; and
- Consultation with Native Americans throughout Phase III.A.

Cost estimates for the Phase III.B services—most notably, tasks related to construction monitoring and treatment of unanticipated discoveries, if any, during construction—are excluded from this Cost Proposal. It is anticipated that those services would be budgeted and performed at a later time.

Phase III.A tasks are grouped into three broad categories: Pre-Field Work; Field Work; and Post-Field Work.

4.27.1 Pre-Field Tasks

Included in this category are: (1) all of the pre-field tasks related to CA-RIV-6896 that are itemized in the DRP/PIII (Moratto 2008a: Items 9.3.1.1.); and (2) consultation and coordination with the COUNTY, City, ENGINEER, Caltrans, the SHPO, Native American tribes/bands, and other entities, as necessary and appropriate, prior to and in preparation for the Phase III archaeological field investigations.

4.27.2 Field Tasks

Included in this category are all of the Phase III.A field tasks related to CA-RIV-6896 that are itemized in the DRP/PIII (Moratto 2008a: Item 9.3.1.2).

4.27.3 Post-Field Tasks

This category encompasses all of the Phase III.A post-field tasks related to CA-RIV-6896 that are itemized in the DRP/PIII (Moratto 2008a: Items 9.3.1.3-9.3.1.5 and 9.3.2.3-9.3.2.5). The following tasks are included:

- 4.27.3.1 Laboratory Work
- 4.27.3.2 Special Studies and Data Analysis
- **4.27.3.3 Data Recovery Report.**
 - 4.27.3.4 Deliverables

Excluded is the production of other deliverables (Moratto 2008a: Item 9.3.3) that will follow completion of all Phase III work.

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PHASE 2 - PLANS, SPECIFICATIONS AND ESTIMATE (PS&E)

1.0 **Existing Data Research and Investigation**

ENGINEER will research, obtain, and input existing data into the project's CADD database as appropriate. For the PS&E phase of the project, updated existing conditions, As-Builts, and Utility information will be required. Updated information pertaining to the Varner Road relocations and improvements will be included. Information gathered during the PA/ED phase of the project will be translated from Metric to English units and included in the project base maps.

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2.0

Utility Coordination

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2.1 **Utility Research and Investigation**

ENGINEER will coordinate with the utility companies identified in the approved Project Report to obtain record copies of utility maps from each utility owner within the project limits for existing and/or proposed utility facilities. ENGINEER shall include mapping and/or exhibits that clearly define the project limits as part of the requests for utility information. ENGINEER will plot available as-built/record drawing information and data compiled for the Project Report on standard Caltrans formatted Utility Location Plans. Additional utility company contacts and requests for as-built/record drawing information will be made, as necessary. Utility owners will be asked to verify the status of their facilities within the project limits. Locations of relocated utilities will be added to the Utility Location Plans upon receipt from the utility companies.

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2.2 **Utility Location Plans**

ENGINEER will prepare utility plans using base layout sheets, showing the location of existing utilities (identified by location, size, type, and owner, as appropriate), delineating those that will require relocation/adjustment, and designating who will be responsible for any required adjustment/relocation. ENGINEER shall check horizontal and vertical clearances for utilities and coordinate design with the various utility companies to address conflicts. In addition to information provided by the owning utility companies and through research of other record maps, field surveys shall be used to locate utility features such as manholes, valves, fire hydrants, poles, risers, etc., which shall be reflected on the plans. Plans will be sent to utility companies to confirm existing facilities locations and relocation limits. This Scope of Work excludes utility relocation design. Utility companies will perform design

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work with their own forces in preparing final utility relocation plans. No design fees have been included for the preparation of final signed plans, specifications, and cost estimates for any interim or permanent utility relocation.

2.3 Utility Potholing Maps

ENGINEER will prepare a Potholing Location Map and perform potholing of existing utilities that are anticipated to be impacted by construction. If it is necessary to pothole existing utilities at critical locations, ENGINEER shall coordinate with COUNTY and Caltrans staff to arrange with the respective utility owner to pothole its facility. .

ENGINEER shall coordinate the use field survey crews to locate potholed utilities by coordinates and elevations based on the project's survey controls. Pothole locations will be surveyed in accordance with Caltrans procedures The ENGINEER shall evaluate the potholing data, and shall include the information on the utility plans in table format, with numbered or letter references to the location of the location of the potholes. A total of five (5) potholes have been assumed based on current available data. It is assumed that no underground "high risk" utilities, as defined in the Caltrans Right of Way Manual, are located within the project limits, which precludes the requirement for a 100-ft potholing interval for such facilities.

ENGINEER has assumed that potholing of five (5) utility locations will be required for the project in accordance with Caltrans High Risk Utilities manual. If more than five (5) locations are deemed necessary for the project, additional compensation will be required.

Encroachment permits from Caltrans and the City will be obtained for potholing activities. Traffic control plans will be submitted to Caltrans and the City for each location as part of the encroachment permit process.

The contract between the ENGINEER and the potholing contractor shall require that the Contractor's insurance policies name the ENGINEER, the COUNTY, and any other affected jurisdictions as additionally insured with respect to the contractor's general liability, excess liability and automobile liability policy. The contractor shall meet the insurance requirements, as set forth elsewhere in this agreement, except that the contractor will not be required to provide professional liability coverage. Review and approval of the Contractor's insurance certificate and endorsements by the COUNTY's representative shall be obtained prior to the start of potholing work.

2.4 Utility Conflict Maps

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Once pothole data is made available, ENGINEER will identify potential conflicts to utility facilities. ENGINEER will prepare utility conflict maps at 1"=50' scale per Caltrans requirements. The ENGINEER shall determine whether or not the facilities are in conflict, and the limits of the conflict, both of which shall be shown on the utility plans with construction notes. ENGINEER shall send preliminary design plans to owning utility companies within the project limits with request for review and comments on the plans relevant to their respective facilities, and other project specific information. ENGINEER will coordinate and work closely with the COUNTY and utility companies to determine the need to relocate impacted lines, using Caltrans policy for high- and low-risk utilities. Known utility conflicts shall be shown on the plans with construction notes indicating action to be taken and by whom. Inventory numbers of poles, vaults and other surface facilities shall be shown on the plans for those facilities that have such numbers attached to the facility and as provided on the owner's inventory maps.

2.5 Utility Relocation Coordination

ENGINEER shall coordinate with utility owners and COUNTY and Caltrans utility coordination staff with respect to all utility related matters, including but not limited to:

- a. Requests for utility as-built plans and inventory maps.
- b. Request for property rights information.
- c. Design coordination meetings and communications.
- d. Notices to owner to initiate design.
- e. Notices to owner and agreements to pothole including submissions to Caltrans for encroachment permits.
- f. Inclusion of utility information, including sub-surface engineering data, on improvement plans.
- g. Notices to owner to relocate conflicting utilities.
- Coordination and communication with respect to utility facilities that are to be installed within planned bridge structures including preparation of agreements as required.
- Coordination and communication with respect to utility facilities that are to be installed prior to or concurrent with COUNTY's construction project, including preparation of agreements as required.
- No conflict letters.
- k. Other procedures and communications as required.
 - ENGINEER shall provide copies of all correspondence with utility companies and other utility related information to the COUNTY and Caltrans as required.

ENGINEER shall act as extension of staff to implement utility coordination and relocation in accordance with Caltrans Right of Way Manual, Chapter 13 and necessary COUNTY procedures, including but not limited to:

- a. Preparation of letters to owners of utilities
 - Many letters will require signature by COUNTY's utility coordination or project management staff.
 - ENGINEER shall prepare letters for COUNTY signature as required. ENGINEER shall prepare and send correspondence under ENGINEER's signature when feasible and appropriate.
- b. Phone, email and office communication
 - ENGINEER shall communicate effectively as needed to achieve necessary and required utility coordination and relocations via all communication methods.
- c. Meetings
 - ENGINEER shall set up utility coordination meetings as needed. ENGINEER shall conduct utility coordination meetings, as needed, regarding adjustments and relocations, to resolve conflict issues.
- d. Agreements
 - ENGINEER shall prepare Agreements utilizing Caltrans format and language, modified as necessary for execution by the COUNTY.
- e. Submittals
 - ENGINEER shall submit letters, notices to owner, agreements, and other documents to COUNTY and Caltrans for reviews and approvals.
- f. Caltrans procedures, general
 - ENGINEER shall comply fully with Caltrans utility coordination procedures, as outlined in Chapter 13 of the Caltrans Right of Way manual. ENGINEER shall be knowledgeable in the required procedures, and shall coordinate with COUNTY and Caltrans as required. ENGINEER shall maintain files in accordance with Caltrans filing requirements, and shall provide Caltrans with duplicate files and shall provide COUNTY with original files upon completion of construction.

ENGINEER shall monitor responses of utility notices received and make recommendations for mitigating conflicts.

ENGINEER shall provide written responses to utility companies with regard to stated concerns and conduct design coordination meetings with utility companies as needed. Unresolved issues shall be brought to the

attention of the COUNTY PROJECT MANAGER as early as practical. Utility conflict issues shall be resolved prior to the completion of the final design plans as follows:

- ENGINEER, through COUNTY staff, shall request and obtain a written acknowledgement of any conflicts from the respective utility owners.
- Reasonable efforts shall be taken to accommodate utility company requests for minor design changes to
 accommodate their facilities. ENGINEER understands that the utility companies are generally operating
 within the COUNTY or Caltrans right-of-way, but may have prior rights to that of the COUNTY / Caltrans
 or may have rights prescribed by Master Utility Agreements between Caltrans and utility companies.
- ENGINEER shall coordinate inclusion of special provisions in COUNTY's bid documents for adjustments and relocations of utility facilities as alternate bid items, if requested by the owning utility. Said work may require that cooperative agreements be prepared between the COUNTY and the owning utility companies. Engineer shall prepare agreements and shall provide information and exhibits as required to support the preparation of cooperative agreements, if needed.

If new electrical service will be needed, ENGINEER shall provide support as directed by COUNTY. Such support includes, but is not limited to, the following responsibilities:

- Obtain <u>approved</u> electrical service point from the serving electric company for each service equipment enclosure to be installed, and identify requirements that the serving electric company has for the provision of service. Coordinate with electric company with respect to design issues associated with the provision of service. Coordinate with serving electric company to fulfill serving electric company requirements as appropriate, including preparation of all utility company forms and submission to COUNTY or Caltrans for execution. Advise COUNTY of requirements that are beyond the scope of the ENGINEER (e.g.: execution of applications for service). However, ENGINEER is expected to provide turn-key service.
- Serving electric company shall be notified that Electrical Safety Orders clearance requirements must be
 met (10' radial clearance between 12kv overhead electrical facilities and signal poles and mast arms, and
 greater clearance for higher voltage electrical facilities). Show such clearance conflicts on the plans with
 construction notes.

appropriate).

 For utility conflicts that require relocating, ENGINEER shall prepare notices to owner relocate conflicting facilities.

However, it is expected that COUNTY staff will sign the orders.

Submit plans indicating proposed service connection locations to serving electric company for approval

(service equipment enclosure, conduit runs, riser quadrant, pole number, and connections to vaults as

Provide detailed load calculations to serving electric company, with a copy to the COUNTY, which

Preparation of any plan required to extend utility services to the designated service point connection is

provides calculations of the normal and maximum expected loads.

assumed to be provided by the utility company.

recommendations for construction windows of time for utility relocation activities, recommendations for inclusion of utility bid items, etc.

ENGINEER shall make recommendations for special provision language with regard to utility issues,

This task assumes all other existing utilities will remain in place and will not require a longitudinal encroachment from Caltrans. If additional utility coordination effort or utility location design work is needed due to a required relocation of a utility, additional compensation will be required to complete this work.

3.0 Right of Way Mapping / Acquisition

3.1 Right of Way Requirements Maps

ENGINEER will determine right of way needs and prepare preliminary right of way requirements maps. Right of way requirements may include the need for new right of way, permanent easements, slope easements, and temporary construction easements. ENGINEER will coordinate with the COUNTY, City, Caltrans, railroad and other affected agencies, as appropriate.

3.2 Right of Way Coordination

ENGINEER will coordinate with the COUNTY on preparation of the existing right of way mapping, record of survey, right of way maps, right of way appraisal maps, legal descriptions, appraisals, and acquisitions. The COUNTY intends to pursue early acquisition of adjacent right of way for the project per Caltrans guidelines. ENGINEER will coordinate with the COUNTY relative to the early acquisitions process.

4.0 **Storm Water Data Report**

In accordance with current Caltrans Project Planning and Design Guide (July 2010), a Storm Water Data Report (SWDR) shall be prepared for this phase of the project. The SWDR prepared for the PA/ED phase of the project will be updated for the PS&E Phase. The SWDR will be prepared as a second order of work during the PS&E Phase based on the approved Geometric Approval Drawings. Specific objectives of the SWDR include:

- Define storm water quality issues and pollutants of concern.
- Form the Project Development Team (PDT), including the District/Regional National Pollutant Discharge Elimination System (NPDES) Storm Water Coordinator.
- Evaluate potential storm water impacts.
- Develop a list of feasible permanent storm water Design Pollution Prevention and Treatment BMPs to be evaluated during project design.
- Document stormwater design decisions made regarding project compliance with the NPDES permit.
- Develop the preliminary costs up to four (4) infiltration type structural best management practices (BMPs).
- Discuss the project with the Regional Water Quality Control Board (RWQCB) and local agencies, if advised by the District/Regional NPDES Storm Water Coordinator or requested by the RWQCB.

The SWDR will be signed by the Project Engineer, the District/Regional Design Storm Water Coordinator, the designated Landscape Representative, and the Project Manager. Up to two (2) rounds of Caltrans review and comment response are included to ensure that storm water quality design issues have been addressed, and the data is complete, current, and accurate.

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5.0

Conceptual Landscape and Aesthetics Plan

5.1 Aesthetics Design Workshops

ENGINEER, in coordination with the COUNTY and City, will develop an Aesthetics Technical Focus Group for the Project. ENGINEER shall facilitate three (3) design workshops with the Aesthetics Technical Focus Group at the beginning of the project to address issues, concerns, and priorities and to obtain input and ideas relative to the implementation of the themes and concepts for the Project within the GATEWAY TO THE DESERT COMMUNITIES REGIONAL DESIGN GUIDELINES AND HIGHWAY ART PROGRAM (Aesthetics Plan). ENGINEER shall introduce the project site and design objectives through the use of Power Point and large-scale exhibits and engage the Aesthetics Technical Focus Group in interactive feedback exercises to obtain their input. ENGINEER shall prepare up to two (2) graphic boards and one (1) Power Point presentation with ten (10) slides as visual reference for the aesthetics design workshop presentations.

The intent of the aesthetics design workshops is to engage the project participants and implement the Aesthetics Plan for the project. The three (3) meetings budgeted for the design workshop efforts are anticipated to cover the following:

Meeting No. 01 – ENGINEER shall introduce project to team members, outline design guidelines of the Aesthetics Plans, develop understanding of where aesthetic treatments can be applied and where they will not be able to be applied, and review the next steps.

Meeting No. 02 – ENGINEER shall review research and materials gathered since first meeting, gather ideas and input from team members, focus on specific aesthetic treatments for specific structural components, and document understanding of final concept and implementation of the Aesthetics Plan.

Meeting No. 03 – ENGINEER shall present final concept for specific aesthetic treatments for specific structural components. The goal of this final Aesthetic Technical Focus Group workshop is to obtain final acceptance and approval of the implementation of the Aesthetics Plan by Caltrans, the COUNTY, and City.

ENGINEER shall prepare meeting minutes for each meeting that will document decisions and that will be distributed to all appropriate project team and Aesthetics Committee members.

Engineering and Environmental Services Agreement • Scope of Services

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Conceptual Landscaping and Aesthetics Implementation and Coordination

ENGINEER shall implement the Aesthetics Plan and coordinate the structural and landscape aesthetic treatment concept with the design team and distribute final design-developed working sketches and exhibits in strip map, 8½ x 11, and 11 x 17 format. No draft, final or formal bound written document, thematic explanation, or defined concept aesthetic treatment report will be provided.

ENGINEER shall develop one (1) structural and landscape aesthetic treatment concept option consistent with the Aesthetics Plan for the following elements of the Project:

- Bridge Structure Outside Railing and Fence Finish
- Bridge Columns Finish
- Crosswalks Finish
- Retaining Wall Finish
- Slope Paving Finish
- Landscape Areas

All working sketches and exhibits in strip map, 8½ x 11, and 11 x 17 formats will illustrate general dimensions and proportions of the aesthetic treatments. All final design elements and aesthetics construction details will be prepared by the individual design functional discipline and incorporated into their respective plans and specifications.

No 3-D renderings, models, or visual graphics are assumed as a part of this scope of work. All existing bridge structures remaining, existing bridge structures to be widened, existing retaining walls, and existing soundwalls will not incorporate any new aesthetic treatments.

ENGINEER shall back-check the final details, dimensions, and constructed design elements prepared by the individual design functional discipline and incorporated into their respective plans and specifications for consistency and conformity to the intent of the approved Aesthetics Concept Plan. One (1) set of redlined comments will be returned to the individual design functional discipline to be incorporated into their respective plans and specifications.

6.0 Drainage Report

ENGINEER will conduct an analysis to determine the impacts this project has on the natural drainage patterns. This analysis will incorporate the use of available information from the City and Caltrans. ENGINEER will prepare a preliminary drainage report utilizing data from prior hydrology/drainage investigations in the area. ENGINEER will analyze existing drainage sub-basins and summarize changes in drainage patterns that will occur from the proposed improvements. Included in the report will be recommendations for on-site improvements such as structures needed at pipe culverts, inlet and outlet locations, erosion control measures and other storm drainage controls.

A hydrology map will be prepared using available aerial photography and mapping. The hydrology map will summarize the local drainage by indicating drainage subareas, existing and proposed storm drainage facilities, drainage patterns, times of concentration and preliminary design year flow rates.

It is assumed there are no major existing off-site and on-site cross culverts and drainage facilities that convey storm water away from the I-10/Jefferson interchange area through a continuous closed pipe or open channel drainage system. The scope of the drainage design will be to convey storm water run-off from the proposed and existing roadway, freeway and ramps through the use of overside drains and inlets that will be located within the interchange area, into BMPs, retention basins, etc, to hold the storm water "on-site". A hydrology analysis will be performed for the proposed roadway improvements.

The Hydrology/Hydraulics Report will generally contain the following:

- Project Location Map
- Project Description
- Evaluation of Runoff Characteristics and Flow Patterns
- Description of Existing and Proposed Facilities
- Description of Unusual or Special Conditions
- Hydrology Map and Other Applicable Hydrologic Data and Calculations

7.0 Storm Water Pollution Prevention Plan (SWPPP)

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ENGINEER will prepare a conceptual Storm Water Pollution Plan (SWPPP) for the project. The project is anticipated to result in more than 1 acre of disturbed soil area and will require a SWPPP and an erosion control plan layout sheet. It is assumed the SWPPP will be prepared assuming the project is a Risk Level 1 per the new 2010 General Construction Permit. The storm water pollution prevention plan will be completed in conformance with the latest design, drafting, policy and procedure manuals of Caltrans.

Traffic Management Plan

ENGINEER will prepare a traffic management plan (TMP) to quantitavely (based on traffic counts proposed herein) discuss anticipated traffic impacts resulting from the proposed project, utilizing existing and forecast traffic analysis data. The TMP will be developed based on the following:

Documentation of Existing Traffic Conditions. Existing available traffic count data and spot survey information provided by cities and Caltrans for both the freeway and adjacent arterials shall be presented in graphical and tabular format as applicable. Freeway data shall include peak period values for mainline, weaving and ramp sections. Arterial data shall include through and turning movements. A total of 12 intersections (excluding vehicle classifications) are assumed to require new traffic counts for weekday and weekend peak hour periods.

Documentation and Analysis of Staging and Phasing Plan Construction. The TMP will be based on the analysis of four (4) stages of construction and twelve (12) intersections. The analysis will include analysis of the Jefferson Street / I-10 Interchange, and associated impacts at the Washington Ave. / I-10 and Monroe Street / I-10 Interchanges. Construction sequence and implementation schedules will be exhibited for the project. Existing available, and newly collected, traffic data will be utilized to forecast future anticipated traffic volume during each of the construction stages and phases in order to analyze peak period level of service. The latest available ramp and mainline volumes will be obtained from Caltrans for the TMP analysis. Analysis will be performed utilizing synchro software.

Analysis of Alternative Route Impacts. Alternative routes will be coordinated with cities and analyzed with regard to intersection capacities during the AM and PM peak periods. Channelization and signalization deficiencies will be noted.

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Development of Mitigation Plans. Specific mitigation measures, if approved, will be suggested and described with regard to signal phasing, channelization and signing on the alternative routes; media coverage and newspaper inserts required to facilitate alternative travel times and modes; and, incident detection requirements such as variable message signs, radio messages and tow trucks. Cost estimates will be prepared. Actual improvement plans to implement potential mitigation measures are not included in the scope of work.

A total of 12 intersections will be analyzed within a total of 8 temporary facility closure scenarios (baseline condition, mainline freeway closures and ramp closures).

9.0 **Geotechnical Engineering**

ENGINEER will provide geotechnical engineering design services for the following design elements:

- Jefferson Street Overcrossing: It is proposed to be a three-span CIP/PS concrete box girder structure with two abutments and two 5-column bents. The bridge has a length of 521 feet and a maximum width of 142 feet. The abutments will be supported on HP 14x89 steel piles for a design load of 100 tons. The bents will be supported on spread footings with an allowable bearing capacity of 3.0 tsf.
- MSE Wall for EB Off-ramp: The MSE wall is proposed to have an approximate length of 624 feet with a maximum height of 40 feet.
- Caltrans Standard Type 1 Retaining Walls: Two Caltrans standard Type 1 retaining walls are proposed to be located north of the I-10 along the auxiliary lane for the WB on-ramp and south of I-10 along the auxiliary lane for the EB off-ramp. The lengths are 1500 feet and 1250 feet, respectively. The approximate maximum height of the retaining walls is 3.3 feet.
- Infiltration Basins: Three proposed infiltration basins. The locations of the infiltration basins will be identified in the Storm Water Data Report.

The geotechnical field investigation plan includes excavating a total of forty-one (41) exploratory borings to investigate subsurface conditions, as listed below.

Design Element Number of Boring # Borings & Approx. Boring Depth Jefferson Street Overcrossing 2 borings for abutments: 75 feet 2 borings for bents: 30 feet MSE Wall 2 borings: 30 feet

Ramps and Embankments

Pavements

Caltrans Standard Type 1 Retaining Walls

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4 borings: 30 feet

4 borings: 30 feet

27 borings: 10 feet

The borings for the overcrossing bridge will be drilled at the locations of the proposed abutments and bents. The fourteen borings for the proposed MSE wall, retaining walls, and ramps and embankments will be located near the existing ramps and freeway shoulders along the proposed ramp alignment. The remaining 27 shallow pavement borings will be located along the proposed roadway alignments at an approximate spacing of one boring per every 650 feet of new roadway.

The borings will be excavated using a truck-mounted drill rig equipped with 8-inch diameter hollow-stem augers. Spoils generated from the boring excavations will be mixed with cement and water and used to backfill the boreholes; spoils will not be stored in drums, tested for contaminants, or disposed of off-site by ENGINEER. Asphalt concrete hot-mix will be used to replace asphalt that is removed by excavations. The boring locations and ground elevations at those locations will be surveyed by others and the information provided to ENGINEER.

ENGINEER will prepare a boring location map prior to the actual field exploration. This map will be used to apply for Caltrans encroachment permit(s). It is anticipated that encroachment permits will be required from Caltrans for all the borings located on or near freeway lanes and freeway entrance/exit ramps.

ENGINEER field personnel will collect soil samples for laboratory testing, including bulk samples of near-surface soils and small disturbed and relatively undisturbed ring samples of deeper soils. The small disturbed and relatively undisturbed soil samples will be collected using split-spoon samplers at a vertical interval of 5 feet, alternating between the Standard Penetration Test (SPT) sampler and the Modified California Drive (MCD) sampler. Samples of subsurface soils will be logged during the field investigation, secured in their containers or collected in plastic bags, and transported to the ENGINEER laboratory.

Traffic control will be established in accordance with City of Indio requirements, Caltrans requirements, or the W.A.T.C.H. Manual, for all borings performed on or near existing roadway and freeway lanes.

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No investigation of hazardous materials is included in this scope of work. If hazardous materials are encountered during field investigations, work will immediately be terminated and the COUNTY and Caltrans will be notified. Soil cuttings are assumed to be non-hazardous for disposal purposes. Remedial mitigation plans for any removal of hazardous waste are not included in the scope of work.

No construction of groundwater monitoring wells and no investigation of borrow sites are assumed as a part of this scope of work.

Soil cuttings mixed with cement will be used for backfilling boreholes and cold patch asphalt will be used to cover the boreholes at existing traffic lanes.

It is assumed that the pending approved environmental document will suffice for reference for cultural resource, biology and archeology elements in securing the encroachment permit for borings, thus no fee has been included for performing these services for the boring program.

As a result of the close proximity of the north bridge abutment to the existing cultural site (CA-RIV-6896), two field mobilizations by ENGINEER will be required to complete the borings for the bridge.

The soil cuttings are assumed to be non-hazardous. If the soil cuttings are tested to be hazardous, they must be disposed of off-site to a hazardous landfill at additional cost.

Laboratory Testing. ENGINEER will select representative soil samples for laboratory testing. Various laboratory tests will be performed to determine or derive physical and engineering characteristics of soils. Anticipated laboratory soil tests include: in-place moisture and density, grain size distribution, direct shear, R-value, maximum density and optimum moisture content, and soil corrosion tests. Tests will be conducted in general accordance with California Test methods or ASTM standards.

Geotechnical Engineering Analyses. Results obtained from the field investigation and laboratory testing will be used to characterize subsurface soils and conditions and create idealized profiles for design purposes. The following analyses will be performed for the project:

- Evaluation of seismicity, estimation of Peak Bedrock Acceleration based on the Caltrans Seismic Hazard
 Map, and recommendations of ARS curves for the bridge structure design.
- Foundation analysis for proposed bridge structure, MSE wall, and retaining walls.
- Assessment of global stability and settlement of ramps and embankments.
- Evaluation of soil corrosivity conditions and recommendations for mitigation measures.
- Pavement structural section design in accordance with the Caltrans method.

ENGINEER will document and prepare the geotechnical engineering analyses and earthwork recommendations for proposed improvements in the following reports.

9.1 Geotechnical Design Report (GDR)

The GDR will be prepared in accordance with the Caltrans GDR guidelines dated December 2006. The GDR will include letter-size boring logs for soil borings performed for retaining walls, ramps, and embankments, and structural pavement sections. Copies of the report will be provided for distribution and review. Review comments related to geotechnical issues will be addressed by ENGINEER in letter responses. Upon approval of all responses, ENGINEER will incorporate responses and comments into final reports. Copies of each final report will be provided for distribution.

9.2 Materials Report (MR)

The MR will be prepared in accordance with Topic 114 of the Caltrans Highway Design Manual and CT 130. The GDR and MR will include letter-size boring logs for soil borings performed for retaining walls, ramps, and embankments, and structural pavement sections. Copies of the report will be provided for distribution and review. Review comments related to geotechnical issues will be addressed by ENGINEER in letter responses. Upon approval of all responses, ENGINEER will incorporate responses and comments into final reports. Copies of each final report will be provided for distribution.

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A Life Cycle Cost Analysis will be prepared during PA/ED phase. In accordance with Caltrans guidelines, it is assumed that an update of the LCCA will not be required for PS&E. The results of the approved LCCA from the PA/ED phase will be incorporated into the development of the Materials Report.

9.3 Foundation Report (FR)

The PFR and FR will be prepared in accordance with the Caltrans Guidelines for Structure Foundation Report dated March 2006. Copies of the report will be provided for distribution and review. Review comments related to geotechnical issues will be addressed by ENGINEER in letter responses. Upon approval of all responses, ENGINEER will incorporate responses and comments into final reports. Copies of each final report will be provided for distribution.

9.4 Infiltration Testing

An infiltration test is proposed at each of the three proposed infiltration basins. The following work will be used to estimate the infiltration rates of onsite soils at each basin location.

Field Investigation. ENGINEER will drill a boring and three temporary wells. Maximum target borehole depth is 30 feet and approximately 10 feet for the wells. Sampling schedule will be at 5-foot intervals in the boring. The three wells will not be sampled, though the soil type will be observed for comparison and documented in well logs. Well testing will be performed following USBR 7300-89 method.

Laboratory Testing. ENGINEER will obtain SPT split-spoon samples from the boreholes for laboratory testing and environmental prescreening. The following tests are planned on select samples:

- Grain Size,
- Chemical Testing (CCR Title 22 Metals, Total Petroleum Hydrocarbons gas & diesel, volatile and semivolatile organic compound), and
- Soil pH-Value, Organic Content and Cation Exchange Capacity.

All tests will be conducted in general accordance with Caltrans Test Methods, or American Standard Test Methods (ASTM), and/or EPA.

Engineering and Environmental Services Agreement • Scope of Services

Engineering Analyses & Report Preparation. ENGINEER will evaluate soil data and describe the subsurface conditions. ENGINEER will calculate soil infiltration (permeability) rates using the USBR 7300-89 method. The field data and infiltration rates will be presented in the Geotechnical Design Report.

9.5 Pavement Deflection Study (PDS)

ENGINEER will conduct a Pavement Deflection Study (PDS) to evaluate the integrity of the following existing roadways:

I-10 Westbound and Eastbound Travel Lanes

Limits: Westbound Travel Lanes 800 meters / Eastbound Travel Lanes 600 Meters

- Pavement Coring and Soil Boring Six (6) Locations
- Deflection Testing 50' Intervals

Pavement coring and soil boring of the in-situ roadway materials shall be performed to determine pavement thicknesses and to obtain samples of the asphalt concrete, aggregate base (if present), and subgrade materials for further analysis. A coring location plan and a tabulated core log will be included within the final report.

Required traffic control will be provided by ENGINEER during sampling operations.

Non-destructive pavement deflection data shall be gathered from each through traveled lane, specified within the project limits, at 50- foot intervals using the JILS Falling Weight Deflectometer, imposing a series of 9,000 pound loads per California Test Method 356.

Using the traffic indices and existing pavement thickness information determined during coring operations, the 80th percentile deflection response shall then be compared to known pavement models. This comparison shall produce overlay requirements for a select design period in accordance with Caltrans Test Method Number 356, and a service life reading (Nominal Service Life) for the roadways studied.

ENGINEER will perform deflection testing and non-destructive pavement deflection data will be gathered from the through traveled lane such that three sensor readings are recorded at each test location at 50-foot intervals.

This task assumes that the findings in the PDS will not expand the scope of work beyond the improvements proposed by Alternative 1 in the Project Report. No pavement overlays or other pavement rehabilitation of existing mainline freeway along I-10 are included in this scope of work. Any additional layouts, profiles, superelevation, stage construction, traffic handling, and construction detail sheets required based on the findings of the PDS are excluded from this scope of work.

10.0 Bridge Site Data Submittal (BSDS)

ENGINEER shall prepare Bridge Site Data Submittal (BSDS) Forms for (1) bridge structure in accordance with the Caltrans OSFP Information and Procedures Guide. The package includes material division of structures design to be approved by the District prior to the type selection process.

11.0 Structure Type Selection (Bridge and MSE Retaining Walls)

ENGINEER will perform a Bridge Type Selection Study for the proposed Jefferson Street overcrossing to determine the optimal span arrangement and length for the proposed cast-in-place prestressed box girder bridge. Alternative 1 in the Project Report has been identified as the preferred alternative. Factors to be considered are site topography, roadway profile and alignment, vertical clearance, bridge length and bridge width, barrier rail, bridge aesthetics, geotechnical, utility accommodation, constructability and cost. ENGINEER will prepare a Bridge Type Selection Report consisting of a Bridge Type Selection Recommendation making note of all critical assumptions of the design, Bridge General Plan, preliminary construction cost estimate and preliminary foundation report. The General Plan will present plan, elevation and typical section views of the selected bridge type.

The ENGINEER will also perform a Mechanically Stabilized Earth (MSE) Retaining Wall Type Selection Study and investigate the preferred alternative to determine the retaining wall type and dimensions. The MSE wall is located along the EB off-ramp, adjacent to the UP railroad right-of-way. The length of wall is estimated at 600 feet.

Factors to be considered are site topography, roadway profile and alignment, retaining wall length and cross section, aesthetics, geotechnical, utility accommodation, constructability, and cost. ENGINEER will prepare a

Retaining Wall Type Selection Report consisting of a Retaining Wall Type Selection Recommendation making note of all critical assumptions of the design, Retaining Wall General Plan, preliminary construction cost estimate and preliminary foundation report. The General Plan will present plan, elevation, and typical section views of the selected retaining wall type.

The Type Selection Reports will be submitted to the COUNTY and Caltrans for review and authorization to begin final design of the bridge and retaining wall. Attendance at one (1) Type Selection Meeting with Caltrans Structures in Sacramento is included in the fee.

12.0 Draft Roadway Design Plans (65% Package)

All plan types shall be completed in conformance with the latest available design, drafting, policy and procedure manuals of Caltrans. The following is a listing of plan sheets with corresponding English scale:

| Title Sheet | 1 | 1:25,000 |
|-----------------------------------------|-----|------------------|
| Typical Cross Sections | 5 | Varies |
| Key Map and Line Index | 1 | 1:25,000 |
| Layout Plans | 8 | 1"=50' |
| Removal Plans | 8 | 1"=50' |
| Profile and Superelevation Plans | 18 | 1"=50'H, 1"=10'V |
| Construction Details | 12 | 1"=20', Varies |
| Water Pollution Control Plans | 9 | 1"=50' |
| Contour Grading Plans | 8 | 1"=50' |
| Drainage Plans | 8 | 1"=50'H, 1"=10'V |
| Drainage Profiles | 6 | 1"=50'H, 1"=10'V |
| Drainage Details | 4 | 1"=20', Varies |
| Drainage Quantities | 5 | 1"=50' |
| Utility Location Plans | 8 | 1"=50' |
| Stage Construction Plans | 8 | 1"=50' |
| Traffic Handling Plans | 50 | 1"=50' |
| Traffic Handling Details | 6 | 1"=20', Varies |
| Traffic Handling Quantities | 8 | 1"=50' |
| Construction Area Sign Plans | 3 | Varies |
| Detour (Temp. Roadway) Plans / Profiles | 3 | 1"=50' |
| Detour (Construction Area Sign) Plans | 12 | 1"=50' |
| Detour Details | 2 . | 1"=20', Varies |
| Detour Quantities | 2 | 1"=50' |
| Pavement Delineation Plans | 15 | 1"=50' |

| | 4 - 4 444 844 | |
|---------------------------------------------|---------------|----------------|
| Pavement Delineation Quantities | 2 | 1"=50' |
| Summary of Quantities | 6 | N/A |
| Sign Plans | 11 | 1"=50' |
| Sign Details | 8 | 1"=20', Varies |
| Sign Quantities | 9 | 1"=50' |
| Standard Retaining Wall Plans | 4 | 1"=20' |
| Standard Retaining Wall Details | 3 | 1"=20', Varies |
| Standard Retaining Wall Quantities | 1 | 1"=50' |
| Planting Plans | 5 | 1"=50' |
| Planting Details | 1 | 1"=20', Varies |
| Planting Quantities | 1 | 1"=50' |
| Irrigation Plans | 5 | 1"=50' |
| Irrigation Details / Sprinkler Schedule | 2 | 1"=50' |
| Irrigation Quantities | 1 | 1"=50' |
| Electrical - Traffic Signals Plans | 6 | 1"=50' |
| Electrical – Temporary Traffic Signal Plans | 1 | 1"=50' |
| Electrical – Lighting & Sign Illumination | 15 | 1"=50' |
| Electrical – Temporary Lighting Plans | 8 | 1"=50' |
| Electrical - Ramp Metering Plans | 5 | 1"=50' |
| Cross - Sections | | |

Total Sheet Count

Note that the professional fees established for the various types of plans are based on the following:

- All plan types for all phases will be prepared in Caltrans plan format.
- All Plans will be prepared in English units
- Utility relocation plans, or new utility facilities required, will be provided by the respective utility company.
 ENGINEER has not included utility design in the Scope of Work.
- It is not anticipated that the project will require preparation of Edge Drain Plans, Fiber Optic
 Communication, Closed Circuit Television (CCTV), Changeable Message Sign (CMS), and Traffic
 Monitoring Station (TMS) plans. Preparation of improvement plans for these design elements are
 specifically excluded from the scope of work.
- Aerially Deposited Lead (ADL) handling plans will not be prepared for the project since the ADL report in the PA/ED phase did not determine mitigation or removal of contaminated soil is required.
- The Scope of Work includes the identification of existing deficient storm drain systems, but does not include design services for upgrading existing deficient storm drain systems.
- Project does not include widening or retrofitting the two existing UP Railroad Overpass Structures. Engineering and Environmental Services Agreement • Scope of Services

Grading and Drainage Plans / Profiles and Details

ENGINEER will provide final engineering services for the preparation of construction plans for the drainage facilities associated with the project improvements. The plans will include the relocation of facilities, extension of local drainage cross culverts, and construction of new catch basins. The improvements include the relocation and/or modification of existing catch basins, parkway culverts, and appurtenant facilities resulting from the widened / realigned roadway.

Construction plans will be prepared utilizing the compiled base sheet information from research, utility investigation, survey data and aerial topography. Utilities within the proximity of the construction will be located on the utility location plan, and crossings shown in the drainage profile. It is assumed there are no major existing off-site and on-site cross culverts and drainage facilities that convey storm water away from the I-10/Jefferson interchange area through a continuous closed pipe or open channel drainage system. The scope of the drainage plans/profiles and details will be designed to convey storm water run-off from the proposed and existing roadway, freeway and ramps through the use of overside drains and inlets that will be located within the interchange area, into BMPs, retention basins, etc to hold the storm water "on-site".

Improvement plans for offsite upstream or downstream local facilities are specifically excluded from the scope of work. If during the course of design review it is determined that modifications are required to the original concepts, then this redesign will be accomplished through a separate addendum to the COUNTY.

Temporary drainage facilities are not anticipated, and not included in the scope of work.

Sign Plans

The Sign Plans will include roadside signs per Caltrans guidelines and MUTCD. It is assumed the two proposed off-ramps will each receive a lightweight overhead sign structures at the ramp termini. It is assumed four overhead sign foundations and signing will be modified in advance to the two proposed off-ramps. It is assumed two sign panels (excluding sign structure and foundations) on overhead freeway sign structures will be modified in the eastbound and westbound direction along the I-10.

Electrical - Traffic Signal Plans

ENGINEER will prepare three (3) traffic signal and intersection lighting modification plans for the following intersection(s):

- I-10 EB Ramps / Jefferson Street (New)
- I-10 WB Off Ramp / Jefferson Street (New)
- Jefferson Street / Varner Road (Modified)

Traffic signal plans will include locations of traffic signal appurtenances, schedules, signal phasing and structural or foundation requirements in accordance with City and Caltrans standards and design criteria. Requirements for electrical service will be coordinated with the Imperial Irrigation District. Installation of traffic signal interconnect conduit and cable to the adjacent signalized intersections will be shown on the traffic signal and intersection lighting plans.

Electrical - Temporary Traffic Signal Plans

The stage construction plan developed during PA/ED anticipates a temporary intersection of the WB off-ramp with Varner Road. It is assumed this intersection will be signalized and require a traffic signal. ENGINEER will prepare one (1) temporary traffic signal and intersection lighting modification plans for the I-10 WB Off-ramp at Varner Road.

Electrical - Lighting and Sign Illumination Plans

ENGINEER will prepare lighting plans to relocate lighting along the on-ramps and off-ramps. The lighting plans will include proposed poles and fixtures, pull boxes, conduit, service locations, wiring, connection diagrams, panel schedules and meter pedestal details. Removal of existing lighting equipment will be shown on the Lighting Plans and no separate Lighting Removal Plans will be prepared.

Electrical - Temporary Lighting and Sign Illumination Plans

1 ENGINEER will prepare temporary lighting plans along the westbound off and on ramps. The lighting plans will 2 include proposed poles and fixtures, pull boxes, conduit, service locations, wiring, connection diagrams, panel 3 schedules and meter pedestal details. 4 5 Electrical - Ramp Metering Plans 6 ENGINEER will prepare Ramp Metering plans for installation of ramp metering equipment at the 3 proposed on-7 ramp locations. 8 9 Construction Staging and Traffic Handling Plans 10 ENGINEER will prepare Stage Construction/Traffic Handling Plans for the proposed roadway improvements that 11 will provide the staging and traffic control necessary to construct the project. It is assumed that temporary detour 12 roads will be required for connections from the existing westbound off ramp to Varner Road, and for the 13 temporary connection from the existing overcrossing to Varner Road. 14 15 The Stage Construction/Traffic Handling Plans will utilize accepted methods of lane closure delineation, signage 16 and barricading. Specific work areas will be protected from traffic based on the construction phase, type of work 17 and construction equipment required within the work area. The plans will be designed to maximize lane usage for 18 all traffic movements, maintain accessible pedestrian access routes, and provide a workable area. 19 20 ENGINEER will meet with City and Caltrans staff to discuss the proposed construction staging, minimum lane 21 requirements, vehicle/pedestrian restrictions, driveways restrictions, lane closures, construction work hours, 22 construction work area required, and potential constraints that may affect the proposed improvements. Four (4) 23 stages of construction have been anticipated to complete construction. 24 25 Retaining Wall Plans 26 ENGINEER will prepare 1"=20' scale plans for standard Caltrans, type 1 retaining walls required for the project. 27 Two (2) standard retaining walls are anticipated. Total length of anticipated standard retaining walls is

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approximately 2,750 feet.

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Two walls will be located adjacent to I-10, at the western limits of the project. Wall No. 1 will be located on the north side of I-10, between Varner Road and I-10, with an approximate length of 1500 feet. Wall No. 2 will be located on the south side of I-10, between UP Railroad and I-10, with an approximate length of 1250 feet. These walls are required to provide the location of WB on ramp and EB off ramp gores including auxiliary lanes.

All retaining walls will receive aesthetic treatments per the Aesthetics Plan. One (1) aesthetic detail sheet will be prepared.

It is assumed that the retaining walls will be a standard Type 1 wall on spread footings that does not require separate plan development and approval through the Caltrans Engineering Services Center.

<u>Planting / Irrigation Plans</u> ENGINEER shall prepare one set of final site plans, specifications and estimates for landscape and irrigation improvements. The documents will be completed in sufficient form and detail to bid and construct the improvements. The plans shall be based on the approved landscape concept plan prepared by ENGINEER under a separate task and shall be prepared at an appropriate scale in Microstation on a base map of the project site prepared by ENGINEER under a separate task. The Planting / Irrigation Plans will be limited to the interchange within Caltrans right of way. It is assumed any landscaping within City limits will be prepared as a separate project.

13.0 Draft Structures PS&E

A. Bridge

The bridge structures will be designed by a California-registered civil engineer in accordance with the applicable provisions of the latest editions of the following Caltrans manuals:

- AASHTO LRFD Bridge Design Specifications with Caltrans Amendments;
- Caltrans Seismic Design Criteria (SDC);
- Caltrans Bridge Memos to Designers; and
- Caltrans Bridge Design Aids

A complete structural analysis will be performed. The bridge design will utilize in-house structural analysis and design computer programs. A complete dynamic (seismic) analysis will be performed using in-house finite

element analysis computer programs for the new structure. A bound set of design calculations will be prepared for the bridge structure. The bridge plans will be prepared to Caltrans standards and formatted on Caltrans Structures Plan Sheets. In accordance with OSFP requirements, the unchecked structures details will be submitted to Caltrans for oversight review when 65% complete. Aesthetic details will be prepared in accordance with the Aesthetics Plan. Aesthetic details will include bridge columns, railing, fencing, and slope paving.

B. MSE Retaining Walls

A MSE wall is designed along the EB off-ramp, adjacent to the UP railroad right-of-way line. The wall length is estimated at 600 feet. The MSE retaining wall structure will be designed by a California-registered civil engineer in accordance with the applicable provisions of the latest editions of the following Caltrans manuals:

- Caltrans Bridge Design Specifications;
- Caltrans Seismic Design Criteria (SDC);
- Caltrans Bridge Memos to Designers; and
- Caltrans Bridge Design Aids.

A bound set of design calculations will be prepared for the retaining walls. Unchecked structure details will be submitted to Caltrans for oversight review when 65% complete. It is assumed no aesthetic details will be prepared for the MSE retaining wall due to the proximity of the railroad.

Structure Independent Check Design Calculations.

A. Bridge Structure

An independent bridge design check will be performed by a California-registered civil engineer experienced in bridge design. The process will be similar to, but independent of the initial design process. The independent check includes design calculations, review of bridge design details, review of bridge special provisions, and bridge quantity calculations.

Any significant differences between the initial design and the independent check will immediately be resolved between the two licensed engineers until substantial agreement on the final design is achieved. Any required changes will be made to the design and construction documents.

Bridge Quantity calculations and cost estimates will be prepared with the initial design and as part of the independent check. The two estimates will be reconciled to develop the final estimate.

ENGINEER will complete the Caltrans OSFP Consultant Quality Control Statement and submit the completed PS&E documents (checked) for review. This submittal will include the independent bridge design calculations.

B. MSE Retaining Wall

An independent design check will be performed by a California-registered civil engineer experienced in retaining wall design. The process will be similar to, but independent of the initial design process. The independent check includes design calculations, review of design details, review of special provisions, and quantity calculations.

Any significant differences between the initial design and the independent check will immediately be resolved between the two licensed engineers until substantial agreement on the final design is achieved. Any required changes will be made to the design and construction documents.

Quantity calculations and cost estimates will be prepared with the initial design and as part of the independent check. The two estimates will be reconciled to develop the final estimate.

ENGINEER will complete the Caltrans OSFP Consultant Quality Control Statement and submit the completed PS&E documents (checked) for review. This submittal will include the independent retaining wall design calculations.

13.1 Bridge Structure Plans

The assumed bridge baseline alternative based on advance planning studies prepared in the Project Report is a cast-in-place pre-stressed box girder bridge. The following plan sheets are anticipated.

| General Plan | 1 sheet |
|-----------------|----------|
| Index to Plans | 1 sheet |
| Deck Contours | 2 sheet |
| Foundation Plan | 2 sheets |

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| Girder Layout Girder Reinforcement Gesthetic Details Gridge Mounted Sign Details Utility Details Gridge Mounted Sign Details Gridge Mounted Detail | 4 sheets 3 sheets 1 sheet 2 sheets 1 sheet 4 sheets 2 sheets 2 sheets |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Girder Reinforcement Lesthetic Details Bridge Mounted Sign Details Utility Details Miscellaneous Details | 3 sheets 1 sheet 2 sheets 1 sheet 1 sheet |
| Girder Reinforcement Lesthetic Details Bridge Mounted Sign Details Utility Details | 3 sheets 1 sheet 2 sheets 1 sheet |
| Birder Reinforcement Lesthetic Details Bridge Mounted Sign Details | 3 sheets 1 sheet 2 sheets |
| Girder Reinforcement | 3 sheets |
| airder Reinforcement | 3 sheets |
| | • |
| airder Layout | 4 sheets |
| | |
| ypical Section | 2 sheets |
| ent Details | 3 sheets |
| ent Layout | 2 sheets |
| | |
| butment Details | 4 sheets |
| | ent Layout |

13.2 MSE Retaining Wall Plans

The assumed retaining wall baseline alternative is a MSE Wall. The following plan sheets are anticipated.

| То | tal MSE Wall Plans | 12 |
|----|---------------------------------|----------|
| • | Log of Test Boring (by Geotech) | 2 sheets |
| • | MSE Wall Details | 5 sheets |
| • | Typical Section | 1 sheet |
| • | Wall Layout | 3 sheets |
| • | General Plan | 1 sheet |

14.0 Updated Draft PS&E (95% Plans Package)

ENGINEER will incorporate review comments from the draft plan check from the COUNTY and Caltrans into the 95% PS&E submittal package. Besides updating plans based on 65% comments, the plan sheets shall be completed to include all details necessary for construction.

During preparation of 95% Plan submittal, Caltrans will schedule a safety review and a constructability review of the plans. ENGINEER will attend these review meetings, respond to comments, prepare and submit a response to comment disposition matrix.

15.0 Cost Estimate

Prepare quantity calculations and final construction cost estimates in accordance with Caltrans requirements utilizing current edition of Caltrans Contract Cost Data book and recent construction bid data. Engineer's cost estimates will be prepared at each submittal stage. It is anticipated that three (3) engineer's cost estimates will be prepared.

16.0 Special Provisions

ENGINEER will prepare special provisions for the construction of the roadway improvements through editing of the current Caltrans Standard Special Provisions (SSP's) in accordance with Caltrans' PS&E Guide. The technical special provisions will be prepared by a California licensed civil engineer for incorporation into the construction bid documents for the overall project by the COUNTY.

17.0 Prepare Final PS&E (100% Plans)

ENGINEER will receive written comments from all participating agencies and review with the COUNTY.

ENGINEER will draft a response to all agency comments at one time. ENGINEER will then meet collectively with all participating agencies to resolve outstanding issues relative to agency comments. ENGINEER will then prepare final dispositions for each review comment for submittal to the Agencies. ENGINEER will make revisions to PS&E and right-of-way documents following plan check and provide final revised quantity take-offs and cost estimates. When revisions have been made, ENGINEER will obtain signatures and provide the requested number of stamped plans to the COUNTY.

This project is anticipated to be advertised, and awarded by the COUNTY, therefore Caltrans District Office Engineer and Caltrans Headquarter Office Engineer reviews and approvals are not required. Additional compensation will be required if the project is be advertised, and awarded by Caltrans, which will require additional reviews by Caltrans District OE and HQ OE. These reviews are excluded from this scope of work.

Plan sheet format will be per Caltrans plan sheet preparation guidelines. ENGINEER will supply Caltrans with an electronic version of final plans sheets for their records, however this work effort does not include meeting the strict requirements of an electronic submittal for a Caltrans advertised project.

18.0 Permit Applications / Environmental Commitments Record

COUNTY will prepare and submit permit applications for surveying and construction. Possible permits required for this project not already noted in other tasks include:

- State encroachment permit for subsurface investigations (i.e. potholing, geotechnical)
- Waste Discharge (NPDES) Permit

The COUNTY will pay for all permit, processing and plan review fees imposed by governing agencies, including the railroads. It is assumed that no Resource Agency permits (i.e. 404, 401, 1601, etc.) will be required; therefore, no design fees for procuring these type of permits have been included. It is assumed no permits, agreements, or insurance will be required from the railroad. The COUNTY will obtain the following permits:

- State encroachment permit for surveying and visual observation
- City permits for surveying and visual observations
- State's Encroachment Permit for Construction

Phase 2 hazardous waste assessments and implement of environmental mitigation measures are not included in this scope of work. It has been assumed that aerially deposited lead (ADL) handling plans will not be required for the project since it is anticipated that ADL will not be found in significant quantities with the project limits.

ENGINEER will review the Environmental Commitments Record (ECR). The ECR will be used as part of the Environmental input for the Resident Engineer file.

19.0 **Resident Engineers File**

ENGINEER will prepare the Caltrans required Resident Engineer (RE) file of documents at the completion of the PS&E phase of the project. The RE file is a summary of project reports and pertinent information that would be useful to the resident engineer during the construction phase of the project.

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The following reports and data are prepared specifically for the RE file, and are not reviewed as part of the PS&E package. Information to be prepared and provide include the following:

Back-up calculations of quantity take-off items

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4 scale bridge deck contours

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Permits

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Based on discussions with the COUNTY, ENGINEER will not prepare any grid grades or staking reports in support of construction. The COUNTY will prepare this information from the final plans and will not require any additional support. COUNTY will also provide survey control data.

Engineering Calculations (horizontal and vertical alignments, earthwork calculations)

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20.0 **Project Team Meetings**

ENGINEER will meet with COUNTY, Caltrans, staff, and other participating agencies to discuss work progress, schedule and related issues in order to exchange information, discuss and resolve issues and to maintain progress of the project. The fee has been established based on eighteen (18) monthly meetings and six (6) miscellaneous team meetings. ENGINEER will prepare meeting minutes with an action item matrix and agenda

and distribute to the COUNTY, City, and other attendees or organizations, as required.

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21.0 **Project Management/ Project Coordination**

This task includes budget for overall project management, liaison with affected agencies, PDT leadership and project management.

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21.1 Agency Liaison

An important consideration is to ensure liaison among the key players for the Project. ENGINEER will lead the PDT's effort and interface with the COUNTY, City, Caltrans, and other affected agencies.

21.2 Progress Reports

Monthly progress reports will be prepared to document progress on the Project. The report will consist of the following:

- Work accomplished during the report period
- Work anticipated during the next reporting period
- Issues
- Impacts
- Progress Schedule/ Work Task Summary

21.3 Project Fact Sheet Preparation

ENGINEER will prepare a Project Fact Sheet per Caltrans District 8 requirements. The Project Fact Sheet provides a general outline of the project description, costs, and schedule.

21.4 Project Charter Preparation

ENGINEER will prepare a Project Charter per Caltrans District 8 requirements. The purpose of the Project Charter is to document key agreements between the Caltrans and the COUNTY on the essential elements of the project.

21.5 Caltrans Risk Management Plan Preparation

ENGINEER will prepare a Risk Management Plan per Caltrans District 8 requirements. The Risk Management Plan is a tool to manage potential risks that have been identified by the Project Development Team (PDT). The Risk Management Plan assesses the level of risk, the probability of the risk occurring, and strategies for avoiding the risk.

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21.6

Communication Plan Preparation

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ENGINEER will prepare a Communication Plan per Caltrans District 8 requirements. The purpose of the Project

Communication Plan is to provide consistent and timely information to all project stakeholders. This plan will

assist the project team in building an effective communication strategy to enhance communication throughout

project delivery.

22.0 **Prepare Quality Control / Quality Assurance Plan**

ENGINEER shall prepare and maintain a quality assurance plan that will be in effect during performance of the services under this Agreement to ensure that the reports, plans, studies, estimates, and other documents submitted under the Agreement are complete, accurate, checked and proofread to meet the standard of care for professional engineering practices in effect at the time of execution of the Agreement.

23.0 **Perform Quality Control**

ENGINEER will supervise, coordinate, monitor and review the design process and deliverables for the Jefferson /

I-10 Interchange Improvements, for conformance with COUNTY and Caltrans and other agency standards,

policies and procedures as appropriate.

ENGINEER will utilize an independent team to review major submittal packages prior to submittal to Caltrans.

ENGINEER will build into the project schedule this independent review. The design team will incorporate any

comments received by the independent review, and provide response to comments. In addition, for the final

submittal, ENGINEER will utilize our construction management personnel to perform a constructability review of

the project.

24.0 **Project Scheduling**

ENGINEER will provide a project schedule with Caltrans approved WBS level 6 tasks. A baseline will be created

at the start of the project. Each month, ENGINEER will update the schedule with actual percent complete for each

task. Progress will be measured against the baseline to determine the status of each task.

Engineering and Environmental Services Agreement • Scope of Services

A-37

| 1 | 25.0 | Expenses |
|----|---------|----------------------------------------------------------------------------------------------------------|
| 2 | ENGIN | IEER will provide reproduction services, and other related expenses for the project. This includes all |
| 3 | reprog | raphics and photocopying for submittals, all photocopying for progress plots, quality control check plot |
| 4 | and in- | house reproductions. |
| 5 | | |
| 6 | The su | bmittals will include the following: |
| 7 | | Draft PS&E Submittal (65%) |
| 8 | | Thirty-five (35) sets of plans plotted on 11x17 sheets |
| 9 | | Ten (10) sets of Design Reports |
| 10 | | Thirty Five (35) sets of Special Provisions |
| 11 | | |
| 12 | | Updated PS&E Submittal (95%) |
| 13 | | Thirty-five (35) sets of Roadway Plans plotted on 11x17 sheets |
| 14 | | Ten (10) sets of Structure Plans on 11x17 sheets |
| 15 | 1 | Five (5) sets of Design Reports |
| 16 | | One (1) set of Design Calculations and Check Calculations |
| 17 | | Thirty Five (35) sets of Special Provisions |
| 18 | | |
| 19 | | Final PS&E (100%) |
| 20 | | Thirty-Five (35) sets of plans plotted on 11x17 sheets |
| 21 | | Four (4) sets of Structure Plans on 11x17 sheets |
| 22 | | Three (3) sets of Design Reports |
| 23 | | Thirty Five (35) sets of Special Provisions |
| 24 | | One (1) set of Design Calculations and Check Calculations |
| 25 | | Construction schedule – 2 copies |
| 26 | | Electronic submittal of plans, special provisions, and estimates. |
| 27 | | |
| 28 | | Final PS&E Package |
| 29 | | Thirty-Five (5) sets of plans plotted on 11x17 sheets |

| 1 | Four (5) sets of Structure Plans on 11x17 sheets |
|----|-------------------------------------------------------------------------------------------------------------------|
| 2 | Three (2) sets of Design Reports |
| 3 | Five (5) sets of Special Provisions |
| 4 | Construction schedule – 2 copies |
| 5 | Electronic submittal of plans, special provisions, and estimates. |
| 6 | |
| 7 | Construction Bidding |
| 8 | One (1) set of reproducible originals, plotted on full size sheets |
| 9 | One (1) set of original Special Provisions |
| 10 | |
| 11 | COUNTY will reproduce plans and special provisions for bidding. |
| 12 | |
| 13 | PHASE 3 – BID SUPPORT |
| 14 | Bidding procedures will be the responsibility of the COUNTY. |
| 15 | During bid advertisement of the project, ENGINEER will refer all questions concerning the intent to the COUNTY |
| 16 | for resolution. In the event that items requiring interpretation of the drawings or specifications are discovered |
| 17 | during the bidding period, the COUNTY will request assistance from the ENGINEER The COUNTY will advise |
| 18 | ENGINEER regarding the proper procedure required for analysis of said items. |
| 19 | |
| 20 | 1.0 Pre-Bid Meeting |
| 21 | Upon the request of the COUNTY, ENGINEER will attend the pre-bid meeting with the appropriate technical |
| 22 | personnel. |
| 23 | |
| 24 | 2.0 Respond to Inquiries |
| 25 | ENGINEER will draft responses to bidders' inquiries as requested by the COUNTY. All such responses will be |
| 26 | routed through the COUNTY. All direct contractor inquiries will be directed by the ENGINEER to the COUNTY. |
| 27 | ENGINEER shall assist with the resolution of utility related issues that may arise during the bidding process, |
| 28 | including design modifications as needed and as approved by the COUNTY PROJECT MANAGER. |
| 9 | |

PHASE 4 – CONSTRUCTION SUPPORT

Construction of the project will be the responsibility of the COUNTY. During the construction phase, ENGINEER shall work closely with Resident Engineer (RE) to assist and advise the RE in order to minimize construction conflicts and to expedite project completion.

1.0 Pre-Construction Meeting

ENGINEER will attend the pre-construction meeting with the appropriate technical personnel.

2.0 Partnering Workshop

ENGINEER will attend a partnering workshop as requested by the COUNTY.

3.0 Shop Drawing and Submittal Review

When requested by COUNTY, ENGINEER will review submittals and shop drawings. The review of shop drawings shall include bridge working drawing submittals, construction contractor's submittals for substitutions, construction contractor's alternative construction approval, structural steel layout for structures, review of contractor provided falsework designs for conformance to the contract documents and others as required by the Resident Engineer. The shop drawing scope assumes one review of each submittal and one back check of resubmittals. Incomplete submittals will not be accepted for initial reviews. Multiple reviews of re-submittals that do not adequately address the initial review comments are not included.

4.0 Site Visits

ENGINEER will visit the job site as requested by the COUNTY. This task does not include regular attendance to any construction meetings.

5.0 Respond to Inquiries / Requests for Information (RFIs)

ENGINEER will draft responses to contractor inquiries and RFIs as requested by the Resident Engineer. ENGINEER shall assist with the resolution of utility related issues that may arise during construction, including design modifications as needed and as approved by the COUNTY PROJECT MANAGER.

6.0 Develop Final Record Drawing Plans

While COUNTY is responsible for maintaining field as-built plans, ENGINEER shall keep a record of changes based solely on information provided by ENGINEER in response to RFI's and additional drawings prepared at the COUTNY request. These marked up plans from COUNTY will form the basis for the development of the Final Record Drawings. ENGINEER assumes no responsibility for the accuracy of the information provided by the Resident Engineer.

In developing the final record drawing PS&E, ENGINEER shall follow all requirements specified in Sections 5-104D (1) and (2) of the Caltrans Construction Manual and submit to the COUNTY no later than 60 days after construction contract acceptance by the COUNTY.

7.0 Public Outreach and Communication

ENGINEER will provide public outreach and communication during the construction phase of the project.

Schedule

| Milestone | Date |
|--------------------------------------|---------------|
| Approved Geometric Approval Drawings | August 2012 |
| PA/ED | November 2012 |
| Right of Way Appraisals | November 2012 |
| 65% PS&E | December 2012 |
| 95% PS&E | May 2013 |
| 100% PS&E | August 2013 |
| Right of Way Certification | October 2013 |
| Approved PS&E | November 2013 |
| Contract Award | March 2014 |
| Project Completion | March 2016 |

ATTACHMENT B - FEE PROPOSAL WORKSHEET Phase/Task Financial Summary PHASE IB PHASE III CONTINGENCY TOTAL Original Budget \$412,217.17 \$125,000.00 \$951,658,60 Amendment No. 1 \$291,124.31 \$476,947.35 \$2,777,586.64 \$24,828,28 \$250,000.00 \$4,026,139,60 A. Traffic Analysis and Study \$102,031.64 \$102,031.64 B. Geometrical Approval Drawings \$152,853.00 \$152,853.00 C. Supplemental Fact Sheets for Exception to Design Standards \$36,239.68 \$36,239.68 D. Cultural Field Work/Data Recovery \$457,008.76 \$457,008.76 E. Noise Impact Analysis \$9,158.59 \$9,158.59 F. Public Outreach and Communication \$10,780.00 \$10,780.00 G. PS&E \$2,777,586.64 \$2,777,586.64 H. Bid Support \$24,828.28 \$24,828.28 I. Construction Support \$205,653.02 \$205,653.02 Contingency \$375,000,00 \$375,000.00 \$705,565.74 \$889,164,52 \$2,777,586,64 \$24,828.28 Proposed Budget \$205,653.02 \$375,000.00 \$4,977,798.20

| | ACHMENT B - FEE PROPOSAL | SCOPE OF WORK | DATE: | RE |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------|
| | | PA/ED (additional), PS&E, Bid Support, and Construction | DATE | KE |
| BF C | onsulting | Support | 5/1/2012 | |
| JJEC | • | | PHASE: | |
| ffers | on Street Interchage Project | | Amendment 1 | |
| | ELTASKS (RAJED) | epart topological | AMOUNT | |
| T | raffic Analysis and Study | | \$102,031.64 | |
| G | eometric Approval Drawings | | \$152,853.00 | |
| s | upplemental Fact Sheets for Exception to Design | Standards | \$36,239.68 | |
| С | ultural Field Work/Data Recovery | | \$457,008.76 | |
| | | | | |
| IN | oise Impact Analysis | | \$9,158.59 | |
| Ρ | ublic Outreach and Communication | | \$10,780.00 | |
| | | | | |
| | | | | |
| | | | | \$768,071.6 |
| | EII TASKS (PS&E) | | AMOUNT | |
| | | | | |
| P | reparation of plans, specifications and estimes for | construction of the I-10/Jefferon Street Interchange imrovements. Dling, coordination with service providers and plans for relacation of | \$2,777,586.64 | |
| C | onflicting utilities, right-of-way mapping, storm wat | er and drainage report preparation, geotechnical engineering and | | |
| de | esign, geotechnical desig reports, materials report esign and bid document preparation in accordanc | t, foundation report, bridge strucure design, landscape and irrigation | | |
| u | esign and bid document preparation in accordance | e with Califan's requirements. | | |
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| | | | | |
| | | | | \$2.777.E9E |
| | | | | \$2,777,586. |
| | EIII DASKS (BIB SUPPORT) | | AMOUNT | \$2,777,586. |
| | | ing responding to bidder inquiries, pre-bid meeting attendance and | AMOUNT \$24,828.28 | \$2,777,586. |
| . P | | ing responding to bidder inquiries, pre-bid meeting attendance and | | \$2,777,586. |
| . P | rovide support during the bidding prossess includ | ing responding to bidder inquiries, pre-bid meeting attendance and | | \$2,777,586. |
| . P | rovide support during the bidding prossess includ | ing responding to bidder inquiries, pre-bid meeting attendance and | | \$2,777,586. |
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| . P | rovide support during the bidding prossess includ | ing responding to bidder inquiries, pre-bid meeting attendance and | | |
| . P | rovide support during the bidding prossess includ | ing responding to bidder inquiries, pre-bid meeting attendance and | | |
| . P | rovide support during the bidding prossess includ | ing responding to bidder inquiries, pre-bid meeting attendance and | | |
| A St | rovide support during the bidding prossess including document modifications as needed | | \$24,828.28 | |
| ASE | rovide support during the bidding prossess including document modifications as needed Note: The second support of the second support | ing responding to bidder inquiries, pre-bid meeting attendance and under the contractor inquiries, and preparation of final record drawings. | \$24,828.28 | |
| . P | rovide support during the bidding prossess including document modifications as needed Note: The second support of the second support | uding coordination with the Resident Engineer, attendance at the | \$24,828.28 | |
| tast | rovide support during the bidding prossess including document modifications as needed Note: The second support of the second support | uding coordination with the Resident Engineer, attendance at the | \$24,828.28 | |
| tast | rovide support during the bidding prossess including document modifications as needed Note: The second support of the second support | uding coordination with the Resident Engineer, attendance at the | \$24,828.28 | |
| tast | rovide support during the bidding prossess including document modifications as needed Note: The second support of the second support | uding coordination with the Resident Engineer, attendance at the | \$24,828.28 | |
| tast | rovide support during the bidding prossess including document modifications as needed Note: The second support of the second support | uding coordination with the Resident Engineer, attendance at the | \$24,828.28 | |
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| ASE | rovide support during the bidding prossess including document modifications as needed Note: The second support of the second support | uding coordination with the Resident Engineer, attendance at the | \$24,828.28 | |
| tast | rovide support during the bidding prossess including document modifications as needed Note: The second support of the second support | uding coordination with the Resident Engineer, attendance at the | \$24,828.28 | \$24,828. |

| FEE PROPOSAL WORKSHEET | | |
|------------------------------|-----------------|-------------|
| COMPANY: | SCOPE OF WORK: | PHASE: |
| RBF Consulting | Project Summary | All Phases |
| PROJECT: | | DATE: |
| Jefferson Street Interchange | | May 1, 2012 |

| PERSONNEL | POSITION | HOURS | | RATE | AMOUNT |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------|---------------|--------------------|----------------------------|
| Steve Huff | Principal | 64 | @ | \$80.05 | \$5,123.20 |
| Brad Donais 2009/00/00/00/00/00/00/00/00/00/00/00/00/ | Project Manager | 182 | @ | \$59.14 | \$10,763.48 |
| Tim Halle | Project Manager | 1,358 | @ | \$59.14 | \$80,312.12 |
| Tim Haile Romeo Firme | Engineering Manager | 160 | @ | \$50.01 | \$8,001.60 |
| Carlos Ortiz | Structural Engineer Technical Manager | 532 398 | @ @ | \$65.39 \$73.56 | \$34,787.48 \$29,276.88 |
| Paul Martin | Senior Engineer | 148 | @ | \$/3,50 \$49.52 | \$7,328.96 |
| residente se entre en la companya de la companya d La companya de la com | Senior Planner | 442 | @ | \$43.03 | \$19,019.26 |
| | Project Engineer | 3,680 | 0 | \$49,52 | \$182,233.60 |
| Orașia (n. 1871), subse estabilită salva santeni e estabilită subsecutiva e estabilită subsecutiva e estabilit | Design Engineer | 5,005 | @ | \$43.53 | \$217,867.65 |
| | Designer | 8,514 | 0 | \$38.87 | \$330,939.18 |
| | Administration License Surveyor | 336 8 | @ | \$29.00 \$58.66 | \$9,744.00 \$469.28 |
| | | | | | |
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| | | | | | |
| | | | | | |
| | TOTAL HO | URS 20,827 | TOTAL | DIRECT LABOR | \$935,866.69 |

MULTIPLIERS

| ESCALATION @ | | (Rates Vary by Phase) | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------|
| OVERHEAD @ | 134.60% | (of Direct Labor + Escalation) | \$1,259,676.56 |
| PAYROLL ADDITIVES @ | 55.40% | (of Direct Labor + Escalation) | \$518,470.15 |
| PROFIT (FIXED FEE) @ | 10.0% | (of Direct Labor + Escalation + Overhead + Payroll Additives) | \$271,401.34 |
| | CONTRACTOR | TOTAL MULTIPLIERS | \$2,049,548.05 |

OTHER DIRECT COSTS

· Billed at Actual Cost · · ·

| OTHER DIRECT COSTS | ••• Billed at Actual Cost ••• | | | | | |
|----------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| er i generalist i dia me | M | QUANTITY | UNIT | | NITCOST | AMOUNT |
| Reprographics | | 13 | Each | @ | \$5,000.00 | \$65,000.00 |
| Postage/Mailing | | 5 | Each | @ | \$1,000.00 | \$5,000.00 |
| Milage | | 7000 | Mile | @ | \$0.50 | \$3,500.00 |
| Potholing | | 1 | Each | @ | \$6,000.00 | \$6,000.00 |
| | | | | | | |
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| Earth and the second | | | | | | STREET STREET AS STALL |

TOTAL ODC'S

\$79,500.00

SUB CONSULTANT SERVICES

| COMPANY | LABOR | MULTIPLIERS | ODG's | TOTAL |
|-----------------------|--------------|--------------|--------------|--------------|
| LSA Associates | \$2,709.98 | \$5,268.61 | \$1,180.00 | \$9,158.59 |
| Earth Mechanics, Inc. | \$49,454.30 | \$94,704.98 | \$65,975.00 | \$210,134.28 |
| Applied Earthworks | \$133,295.00 | \$199,395.99 | \$112,661.00 | \$445,351.99 |
| Green Communication | \$46,580.00 | | | \$46,580.00 |
| | | | | |
| | | | | |

TOTAL SUBCONSULTANT SERVICES

\$711,224.86

TOTAL \$3,776,139.60

| FEE PROPOSAL WORKSHEET | | |
|------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| COMPANY: | SCOPE OF WORK: | PHASE: |
| RBF Consulting | Preliminary Engineering & Environmental | Phase I |
| PROJECT: | | algorization retainer in activitation in terretainer in terretaine |
| Jefferson Street Interchange | | DATE: |

| PERSONNEL | POSITION | HOURS | | RATE | AMOUNT |
|-------------------------------------------------------------------|------------------------------------------|-------|-----------------------|--------------------|-------------------|
| Steve Huff | Principal | | | \$80.05 | |
| Brad Donais | Project Manager | 12 | @ | \$59.14 | \$709.68 |
| Tim Haile | Project Manager | | | \$59.14 | |
| Tim Haile Romeo Firme | Engineering Manager | 160 | @ | \$50.01 | \$8,001.60 |
| Carlos Ortiz | Structural Engineer Technical Manager | | 754772885 | \$65.39 \$73.56 | |
| Paul Martin | Senior Engineer | 48 | @ | \$73.56 \$49.52 | \$2,376.96 |
| 하는 현실 전체 현실 경기 경기 경기 (1905) 전 1 전 1 전 1 전 1 전 1 전 1 전 1 전 1 전 1 전 | Senior Planner | | ane d e verser | \$43.03 | V 2,010.00 |
| | Project Engineer | 378 | @ | \$49.52 | \$18,718.56 |
| Companyor (1981) in the Companyor (1981) and companyor (1981) | Design Engineer | 560 | @ | \$43.53 | \$24,376.80 |
| | Designer | 1,030 | @ | \$38.87 | \$40,036.10 |
| | Administration License Surveyor | 24 | @ | \$29.00 \$58.66 | \$696.00 |
| | | | Artikana | | |
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TOTAL HOURS 2,212 TOTAL DIRECT LABOR \$94,915.70

MULTIPLIERS

| OVERHEAD @ 134.60% (of Direct Labor + Escalation) \$127,756.53 PAYROLL ADDITIVES @ 55.40% (of Direct Labor + Escalation) \$52,583.30 PROFIT (FIXED FEE) @ 10.0% (of Direct Labor + Escalation + Overhead + Payroll Additives) \$27,525.55 | ESCALATION @ | | (of Direct Labor) | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------|---------------------------------|-------------------------------|--------------|
| | OVERHEAD @ | 134.60% | (of Direct Labor + Escalation) | | \$127,756.53 |
| PROFIT (FIXED FEE) @ 10.0% (of Direct Labor + Escalation + Overhead + Payroll Additives) \$27,525.55 | PAYROLL ADDITIVES @ | 55.40% | (of Direct Labor + Escalation) | | \$52,583.30 |
| | PROFIT (FIXED FEE) @ | 10.0% | (of Direct Labor + Escalation + | Overhead + Payroll Additives) | \$27,525.55 |

TOTAL MULTIPLIERS \$207,865.38

OTHER DIRECT COSTS

· Billed at Actual Cost · · ·

| ITEM | QUANTITY UNIT | UNIT COST AMOUNT |
|------------------------|---------------|--------------------------------------------------------|
| Reprographics | | \$5,000.00 |
| Postage/Mailing Milage | Each Mile | \$1,000.00 \$0.50 |
| Potholing | Each | \$6,000.00 |
| | | |
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| | | STOREGISTORY STRUCTURE OF OUR OBSORATION SERVED STRUCT |

TOTAL ODC'S

SUB CONSULTANT SERVICES

| LSA Associates | ** LABOR | ULTIPLIERS \$5,268.61 | ODC's \$1,180.00 | TOTAL \$9,158.59 |
|-----------------------|----------------------------------------------------|--------------------------------|--------------------------------------|------------------------------------------|
| Earth Mechanics, Inc. | uit espigata e (O TAPI ONE PETER AND AND TO | and a Trainman and the best of | Sample of the property of the second | en e |
| Applied Earthworks | \$133,295.00 | \$199,395.99 | \$112,661.00 | \$445,351,99 |
| Green Communication | \$10,780.00 | | | \$10,780.00 |
| | | | | |

TOTAL SUBCONSULTANT SERVICES

\$465,290.58

TOTAL \$768,071.66

| FEE PROPOSAL WORKSHEET | | |
|------------------------------|--------------------------|-------------|
| COMPANY: | SCOPE OF WORK: | PHASE: |
| RBF Consulting | Plans, Specs & Estimates | Phase II |
| PROJECT: | | DATE: |
| Jefferson Street Interchange | | May 1, 2012 |

| PERSONNEL | POSITION | HOURS | | RATE | AMOUNT |
|---------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------|----------|--------------------|------------------------------|
| Steve Huff | Principal | 64 | @ | \$80.05 | \$5,123.20 |
| Brad Donais #################################### | Project Manager | 130 | @ | \$59.14 | \$7,688.20 |
| Tim;Halle Tim Halle | Project Manager | 1,226 | @ | \$59.14 | \$72,505.64 |
| Romeo Firme | Engineering Manager Structural Engineer | 380 | @ | \$50.01 \$65.39 | \$24,848.20 |
| Carlos Ortiz | Technical Manager | 358 | @ | \$73.56 | \$26,334.48 |
| Paul Martin | Senior Engineer | 100 | <u>@</u> | \$49.52 | \$4,952.00 |
| entre de la después de la companya | Senior Planner | 370 | @ | \$43.03 | \$15,921.10 |
| | Project Engineer | 3,034 | 0 | \$49.52 | \$150,243.68 |
| Parata da antigo de la contigua de | Design Engineer Designer | 4,323 7,304 | 0 | \$43.53 \$38.87 | \$188,180.19 \$283,906.48 |
| | Administration | 304 | @ @ | \$29.00 | \$8,816.00 |
| | License Surveyor | 8 | 0 | \$58.66 | \$469.28 |
| | | | | | |
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| | | | | | |
| · 100 | | | | | |
| | TOTAL H | OURS 17,601 | TOTAL D | DIRECT LABOR | \$788,988.45 |

| | | | , | | 4.00,000.10 |
|----------------------|--------|--------------------------------|--------------------|---------------|----------------|
| MULTIPLIERS | | | | | |
| ESCALATION @ | | (of Direct Labor) | | | |
| OVERHEAD @ 1 | 34.60% | (of Direct Labor + Escalation) | | | \$1,061,978.45 |
| PAYROLL ADDITIVES @ | 55.40% | (of Direct Labor + Escalation) | | | \$437,099.60 |
| PROFIT (FIXED FEE) @ | 10.0% | (of Direct Labor + Escalation | + Overhead + Payro | Il Additives) | \$228,806,65 |

TOTAL MULTIPLIERS

\$1,727,884.71

OTHER DIRECT COSTS ... Billed at Actual Cost ...

| | *** Dilleu at Actual Ci | USI *** | | | | |
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| | TEM . | QUANTITY | UNIT | ı | NIT COST | AMOUNT |
| Reprographics | | 12 | Each | @ | \$5,000.00 | \$60,000.00 |
| Postage/Mailing | | 4 | Each | @ | \$1,000.00 | \$4,000.00 |
| Milage | | 5000 | Mile | @ | \$0.50 | \$2,500.00 |
| Potholing | | 1 | Each | @ | \$6,000.00 | \$6,000.00 |
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TOTAL ODC'S

\$72,500.00

SUB CONSULTANT SERVICES

| COMPANY | LABOR | MULTIPLIERS | OBC)s | TOTAL |
|-----------------------|-------------|-------------|-------------|--------------|
| LSA Associates | | | | |
| Earth Mechanics, Inc. | \$41,934.30 | \$80,304.18 | \$65,975.00 | \$188,213.48 |
| Applied Earthworks | | | | |
| Green Communication | | | | |
| | | | | |
| | | | | |

TOTAL SUBCONSULTANT SERVICES

\$188,213.48

TOTAL \$2,777,586.64

| FEE PROPOSAL WORKSHEET | | |
|------------------------------|----------------|-------------|
| COMPANY: | SCOPE OF WORK: | PHASE: |
| RBF Consulting | Bid Support | Phase III |
| PROJECT: | | DATE: |
| Jefferson Street Interchange | | May 1, 2012 |

| PERSONNEL | POSITION | HOURS | | RATE | AMOUNT |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------|------------------|--------------------|--------------------|
| Steve Huff | Principal | | | \$80.05 | |
| Brad Donais | Project Manager | 12 | @ | \$59.14 | \$709.68 |
| Tim Haile Tim Haile | Project Manager | 44 | @ | \$59,14 | \$2,602.16 |
| rim naile Romeo Firme | Engineering Manager Structural Engineer | 20 | @ | \$50.01 \$65.39 | \$1,307.80 |
| Carlos Ortiz | Technical Manager | 8 | @ | \$73.56 | \$588.48 |
| Paul Martin | Senior Engineer | | | \$49.52 | |
| | Senior Planner | | | \$43.03 | |
| | Project Engineer | 52 | @ | \$49.52 | \$2,575.04 |
| Kun Candala da 1985 ya Kii Balanda ƙasar da 1985 ya Kina da 1985 ya Kina da 1985 ya Kina da 1985 ya Kina da 19 | Design Engineer | i Poel de Norse, vel disposo i webbika | LONGO HENRIO GER | \$43.53 | usba ust en a koma |
| 가 걸려면 하다면 보이 맛있다. 아니라 맞고 있는데 그 사람들이다. - | Designer Administration | | | \$38.87 \$29.00 | |
| | License Surveyor | | | \$58.66 | |
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MULTIPLIERS

| ESCALATION @ | (of Di | rect Labor) | | |
|----------------------|----------------|--------------------------------------|--------------------|-------------|
| OVERHEAD @ | 134.60% (of Di | rect Labor + Escalation) | | \$10,476.13 |
| PAYROLL ADDITIVES @ | 55.40% (of Di | rect Labor + Escalation) | | \$4,311.87 |
| PROFIT (FIXED FEE) @ | 10.0% (of Di | rect Labor + Escalation + Overhead + | Payroll Additives) | \$2,257.12 |

TOTAL MULTIPLIERS \$17,045.12

OTHER DIRECT COSTS

· · · Billed at Actual Cost · · ·

| Dillog at Adda Cost | | | |
|---------------------|----------------------|------------|--------|
| ITEM QUANTITY | UNIT | UNIT COST | AMOUNT |
| Reprographics | Each | \$5,000.00 | |
| Postage/Mailing | Each | \$1,000.00 | |
| Milage | Mile | \$0.50 | |
| Potholing | Each | \$6,000.00 | |
| | | | |
| | | | |
| | Series 444, 8 (2004) | | |

TOTAL ODC'S

SUB CONSULTANT SERVICES

| COMPANY LABOR MULTIPLIERS ODC'S TOTAL |
|---------------------------------------|
| LSA Associates |
| Earth Mechanics, Inc. |
| Applied Earthworks |
| Green Communication |
| |

TOTAL SUBCONSULTANT SERVICES

TOTAL \$24,828.28

| FEE PROPOSAL WORKSHEET | | |
|------------------------------|----------------------|-------------|
| COMPANY: | SCOPE OF WORK: | PHASE: |
| RBF Consulting | Construction Support | Phase IV |
| PROJECT: | | DATE: |
| Jefferson Street Interchange | | May 1, 2012 |

| PERSONNEL | POSITION | HOURS | | RATE | AMOUNT |
|----------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------|---------------|--------------------|--------------------------|
| Steve Huff | Principal | | | \$80.05 | |
| Brad Donais | Project Manager | 28 | @ | \$59.14 | \$1,655.92 |
| Tim Haile Tim Haile | Project Manager | 88 | @ | \$59.14 \$50.01 | \$5,204.32 |
| Romeo Firme | Engineering Manager Structural Engineer | 132 | 0 | \$65.39 | \$8,631.48 |
| Carlos Ortiz | Technical Manager | 32 | @ | \$73.56 | \$2,353.92 |
| Paul Martin | Senior Engineer | | | \$49.52 | |
| Na arranda de la Regional de la como de la como a como como como en la como como en la como como en especiment | Senior Planner | 72 | @ | \$43.03 | \$3,098.16 |
| | Project Engineer | 216 | 0 | \$49.52 | \$10,696,32 |
| | Design Engineer Designer | 122 180 | @ | \$43.53 \$38.87 | \$5,310.66 \$6,996.60 |
| | Administration | | @ @ | \$29.00 | \$232.00 |
| | License Surveyor | | | \$58.66 | |
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| | | /p | | | |
| | TOTAL | . HOURS 878 | TOTAL | DIRECT LABOR | \$44.17 |

| | | TOTAL HOURS | 010 | TOTAL DIRECT DABOIT | Ψ 11, 173.30 |
|----------------------|---------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------|
| MULTIPLIERS | | | | | |
| ESCALATION @ | | (of Direct Labor) | | | |
| OVERHEAD @ | 134.60% | (of Direct Labor + Escalation) | | | \$59,465.45 |
| PAYROLL ADDITIVES @ | 55.40% | (of Direct Labor + Escalation) | | | \$24,475.38 |
| PROFIT (FIXED FEE) @ | 10.0% | (of Direct Labor + Escalation + | Overhead + Payroll | Additives) | \$12,812.02 |
| | | | The state of the s | TOTAL MULTIPLIEDS | ¢06 752 94 |

OTHER DIRECT COSTS

| ••• | Billed | at | Actual | Cost | *** | |
|-----|--------|----|--------|------|-----|--|

| 0111E11 0111E01 00010 | Dilled at Actual Cost | | | | | |
|-----------------------|-----------------------|-----------------------|------|-------|------------|------------|
| ITEM | | QUANTITY | UNIT | 7, 11 | INIT COST | AMOUNT |
| Reprographics | | 44.07. 1 .8740 | Each | @ | \$5,000.00 | \$5,000.00 |
| Postage/Mailing | | 1 | Each | @ | \$1,000.00 | \$1,000.00 |
| Milage | | 2000 | Mile | @ | \$0.50 | \$1,000.00 |
| Potholing | | | Each | | \$6,000.00 | |
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TOTAL ODC'S

\$7,000.00

SUB CONSULTANT SERVICES

| CO | MPANY | LABOR | MULTIPLIERS OD | ic's Total |
|-----------------------|----------------------|-------------|----------------|----------------------------------------------------------------------------------------------------------------|
| LSA Associates | | | | |
| Earth Mechanics, Inc. | | \$7,520.00 | \$14,400.80 | \$21,920.80 |
| Applied Earthworks | | | | |
| Green Communication | | \$35,800.00 | | \$35,800.00 |
| | 的是1955年,1965年1965年4月 | | | la de la companya de |
| | | | | |
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TOTAL SUBCONSULTANT SERVICES

\$57,720.80

TOTAL \$205,653.02

| LEEDS XXON AND INVI | | | | | | | | | | | | | | | |
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| OMPANY: RBF Consulting | | | | | | SCOPE OF WORK: Manhour Summary | k: Summarv | | | | | PHASE: All Phases | | | |
| ROJECT: Jefferson Street Interchange | | | | | | | | | | | | DATE: May 1, 2012 | 2 | | |
| | ************************************** | *************************************** | | *************************************** | CONTRACTOR OF THE PROPERTY OF | odverový veználené zábáli se kraje z kábazov. | Negocianis de receptor de descripción de la composição de | indian-kenisi dalam melakkan perkenakan dalam dalam | *************************************** | *************************************** | | | ************************************** | | |
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| | | | | | SERVICE VIEW | | X | F.ABB | | `` | | | | | |
| TASK | | | \$0 km/s/4 | Sounday Sound | | | | | ` | . 1 | ् | | O S ROOT & | | |
| | | | | | 76588888.* | | | | ٠ <u>.</u> | · . ` | | | Starts Aller | | (Top & Bottom) |
| | \$255.36 | \$188.86 | \$188.66 | \$159,53 | | \$234.66 | \$157.97 | | ₹ S | \ ž | \$ 2 | \$92.51 | \$187.13 | MOURS | MOURS |
| PHASE TOTALS | 64 | 182 | 1,358 | 160 | 532 | 398 | 148 | 442 | 3,680 | 5,005 | 8,514 | 336 | 8 | 20,827 | 20,827 |
| | | 12 | | 160 | | | 48 | | 378 | 260 | 1,030 | 24 | | 2,212 | 2,212 |
| | 2 | 130 | 1,226 | | 380 | 328 | 100 | 370 | 3,034 | 4,323 | 7,304 | 304 | 8 | 17,601 | 17,601 |
| | | 12 | 4 | | 20 | 80 | | | 25 | | | | • | 136 | 136 |
| PHASE IV | | 28 | 88 | | 132 | 32 | | 22 | 216 | 122 | 180 | 80 | | 878 | 878 |

| COMPANY. RBF Consulting | | | Preliminary I | Preliminary Engineering & Environmental | ng & Enviro | nmental | | Σ | Phase I | | | |
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| PROJECT: Jefferson Street Interchange | | | | | | | | DATE: May | \TE: May 1, 2012 | | | |
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| | 69 60 | 9.53 % | 5234.66 | \$157.97 \$1 | \$137.27 \$1 | # === | \$138.86 \$12 | ### 22 | ₩ | | Zeouka | |
| Total Manhours | 12 | 160 | | 48 | | 378 | 560 1, | 1,030 | 24 | | 2,212 | (FEEE |
| 2.0 Traffic Analysis and Study | 7 | 32 | | 48 | | 120 | 180 | 360 | | | 47 | \$ 102,032 |
| 5.19 Geometric Approval Drawings | | 80 | | | | 160 | 300 | 290 | | | 1,130 | \$ 152,853 |
| 5.20 Supplemental Fact Sheets for Exception to Design Standards | | 24 | | | | 28 | 80 | 08 | 24 | What had been a sure in the second | 266 | \$ 36,240 |
| 4.27 Cultural Field Work/Data Recovery | 8 | 24 | | | | 40 | | | - Commence of the Commence of | - | 72 | \$ 11,657 |
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| COMPANY | | | | SCOPE OF WORK | | | | - | PHASE. | | | | |
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| RBF Consulting | | | | Plans, Spec | Plans, Specs & Estimates | | | | Phase II | | | | 5 |
| PROJECT Jefferson Street Interchange | | | | | | | | | DATE: May 1, 2012 | 2 | | | |
| | | | | \$3.45 A. S. | 1600 | | \sim | | N. | 10 | 100 | | |
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| Total Manhours | | 1 1 | | _ | | | 4,323 | 7,304 | 4 | 8 | 17,601 | 2 | |
| 1.0 Existing Data Research and Investigation | | 8 | | | | 16 | 12 | | 4 | | | 40 \$ | 6,073 |
| 2.0 Utility Coordination | | | | - | | | | | | | | ļ | |
| 2.1 Utility Research and Investigation | | 4 | | | | 20 | 4 | 36 | | | _ | 100 \$ | 13,932 |
| 2.2 Utility Location Plans | | 0 | of participation of par | | - | 28 | 44 | 80 | | | | 160 \$ | 21,962 |
| 2.3 Utility Pothole Maps | | 2 | | | | 12 | 20 | 28 | 2 | 8 | | 72 \$ | 10,204 |
| 2.4 Utility Conflict Maps | | 2 | | | | 12 | 20 | 28 | 2 | | | 64 \$ | 8,707 |
| 2.5 Utility Relocation Coordination | | 80 | | | - | 45 | 40 | 80 | | | - | 168 \$ | 23,302 |
| 3.0 Right of Way Mapping/Acquistion | | - | | | | | | | | | | | |
| 3.1 Right of Way Requirement Maps | *********** | 4 | | | | 24 | 09 | 40 | | | _ | 128 \$ | 17,837 |
| 3.2 Right of Way Coordination | | 20 | | | | 100 | | - | | | - | 120 \$ | 19,570 |
| 4.0 Storm Water Data Report | | 4 | | | | 32 | 42 | 98 | | | | 164 \$ | 22,305 |
| 5.0 Conceptual Landscape and Aesthetics Plan | | Accessed the company of the company | | | | | | | | | | | |
| 5.1 Aesthetics Design Workshops | energe en estad | 4 | 4 | | | 24 8 | | 46 | - | | | \$ 98 | 11,851 |
| 5.2 Conceptual Landscape and Aesthetics Implementation | ation | 4 | 4 | | 7 | 156 72 | | 254 | | | 4 | 490 \$ | 65,871 |
| 6.0 Drainage Report | | 32 | | | | 8 | 140 | 150 | 18 | | 4 | 420 \$ | 58,379 |
| 7.0 Storm Water Pollution Plan (SWPPP) | | 2 | | | | 24 | 8 | 32 | 4 | | - | 102 \$ | 14,061 |
| 8.0 Traffic Management Plan | | 32 | | | 100 | 32 | 72 | 120 | 24 | | က | 380 \$ | 53,987 |
| 10.0 Bridge Site Data Submittal | - | 2 | 8 | | | • | 16 | 40 | 9 | | | \$ 08 | 11,046 |
| 11.0 Structure Type Selection (Bridge and MSE Retaining Walls) | g Walls) | 24 | 49 | | | 4 | 100 | 220 | 24 | | 4 | 448 \$ | 62,576 |
| 12.0 Draft Roadway Design Plan (65% Package) | | - | | ~~~ | | | | | | | and the second second | | - |
| 12.1 Title Sheet/Typical Cross Sections/Key Map | | æ | | | | 28 | 52 | 80 | | | - | 168 \$ | 23,073 |
| 12.2 Layout Plans | | 40 | | | • | 4 | 64 | 176 | *********** | | 3 | 320 \$ | 44,575 |
| 12.3 Removal Plans | | 4 | | Maringue Ajorda | | 5 | 18 | 32 | *********** | | | 64 \$ | 8,802 |
| 12.4 Profile and Superelevation Plans | | æ | | | | 28 | 32 | 9/ | | | 1 | 144 \$ | 19,800 |
| 12.5 Construction Details | | 12 | | | | 80 | 112 | 216 | : | | 4 | 420 \$ | 57,237 |
| 12.6 Water Pollution Control Plans | | 4 | | | | 4 | 40 | 96 | | | 1 | 180 \$ | 24,531 |
| 12.7 Contour Grading Plans | | æ | | | | 09 | 100 | 152 | - | | 3 | 320 \$ | 43,721 |
| 12.8 Drainage Plans/Profiles/Details/Quantities | | 40 | | | | 100 | 180 | 324 | | | 9 | 644 \$ | 88,513 |
| 12.9 Stage Construction/Traffic Handling Plans/Details/Quantities | s/Quantities | 40 | - | 1 8 | | 340 | 280 | 812 | | | 1,872 | 49 | 265,945 |
| 12.10 Construction Area Sign Plans | | 2 | - | 7 | | | 18 | 32 | | | | \$ 09 | 8,262 |
| 12.11 Detour Plans/Profiles/Details/Quantities | | 32 | | 32 | | 48 | 80 | 264 | | | 4 | 456 \$ | 64,972 |
| 12.12 Pavement Delineation Plans/Quantities | | 2 | | 12 | | 99 | 100 | 166 | | | 6 | 340 \$ | 47,141 |

| -XOJECI! | | | | | の影響を関 | | DATE: Ma | May 1, 2012 | | | |
|-----------------------------------------------------------|-----------------|-------|-----------------------------------------|----|---------|-----------------------------------------|-------------|----------------|---------------------------------------------|-------|----------------------|
| Jefferson Street Interchange | | | | | | | | | | | |
| TASK TASK | ABDIANA ISBI CO | \ 4 \ | A Programme | | \sim | SAN | | J. F. G. H. H. | 4043 18 18 18 18 18 18 18 18 18 18 18 18 18 | | |
| 12.13 Sign Plans/Details/Quantities | 16 | | 32 | | | 120 | | | | 280 | 8051 \$ 77.974 |
| 12.14 Summary of Quantities | 16 | | | - | 4 | 2 8 | 152 | | | 288 | |
| 12.15 Standard Retaining Wall Plans/Details/Quantities | 9 | | | | 52 | 82 | 140 | | | 280 | 1 |
| 12.16 Planting Plans /Details/Quantities | 2 | | | 4 | 20 | 24 | 09 | | | 146 | \$ 19,800 |
| 12.17 Irrigation Plans/Details/Quantities | 2 | | | 4 | 26 | 28 | 72 | | | 168 | \$ 22,791 |
| 12.18 Electrical - Traffic Signal Plans | 4 | | 16 | | 24 | 32 | 80 | | | 156 | \$ 22,664 |
| 12.19 Electrical - Temporary Traffic Signal Plans | 2 | | *************************************** | | 9 | 12 | 20 | | | 40 | \$ 5,471 |
| 12.20 Electrical - Lighting and Sign Illumination Plans | 4 | | 40 | | 80 | 200 | 126 | | | 450 | \$ 66,174 |
| 12.21 Electrical - Temporary Lighting Plans | 2 | | | | 18 | 20 | 64 | | | 80 | \$ 10,958 |
| 12.22 Electrical - Ramp Metering Plans | 2 | | | | 41 | 40 | 4 | | | 100 | \$ 13,599 |
| 12.23 Cross-Sections | 7 | | | | 80 | 32 | 64 | | • | 82 | \$ 11,044 |
| 13.0 Draft Structure PS&E (65%) | | | *************************************** | - | - | | | | | | |
| 13.1 Bridge Structure Plan | 40 | 200 | | - | 200 | 200 | 542 | | | 1,482 | \$ 217,495 |
| 13.2 MSE Wall Plans | 20 | 40 | | | 80 | 120 | 204 | | | 464 | \$ 66,713 |
| 14.0 Updated Draft PS&E (95% Plans Package) | | | *************************************** | | | | | | | | |
| 14.1 Updated Roadway PS&E | 32 | | | | 80 | 180 | 228 | 16 | | 536 | \$ 73,421 |
| 14.2 Updated Water Pollution Control PS&E | 4 | | | | 10 | 24 | 34 | | | 72 | \$ 9,883 |
| 14.3 Updated Drainage PS&E | 12 | | | | 32 | 63 | 65 | 12 | | 184 | \$ 25,237 |
| 14.4 Updated Traffic PS&E | 16 | | 32 | | 80 | 220 | 470 | 16 | | 834 | \$ 113,472 |
| 14.5 Updated Electrical PS&E | ဆ | | 12 | | 28 | 09 | 164 | 80 | | 280 | \$ 38,155 |
| 14.6 Updated Retaining Wall PS&E | 4 | | | | 10 | 28 | 38 | | | 80 | \$ 10,934 |
| 14.7 Updated Landscape/Irrigation PS&E (Optional) | 4 | | - | 40 | 12 | 18 | 46 | | | 120 | \$ 16,344 |
| 14.8 Updated Structures PS&E | 8 | 24 | | | 32 | 110 | 258 | | | 432 | \$ 58,836 |
| 15.0 Cost Estimate | 4 | 4 | 4 | 4 | 7.5 | 120 | | | | 208 | \$ 31,114 |
| 16.0 Special Provision | 32 | 24 | 24 | 20 | 100 | 80 | | 09 | | 340 | \$ 51,877 |
| 17.0 Prepare Final PS&E (100% Plans Package) | - | | | | | - | | | | | |
| 17.1 Final Roadway PS&E | 16 | | | | 28 | | 06 | | | 134 | \$ 18,601 |
| 17.2 Final Water Pollution Control PS&E | 2 | | | | 4 | | 12 | | | 18 | \$ 2,497 |
| 17.3 Final Drainage PS&E | 4 | | | | 12 | | 30 | | | 46 | \$ 6,370 |
| 17.4 Final Traffic PS&E | 4 | | 8 | | 18 | | 109 | | | 139 | - |
| 17.5 Final Electrical PS&E | 2 | | 4 | | ę, , | | 54 | | | 28 | \$ 9,591 |
| 17.7 Final Landscape/Intrination PS&E (Ontional) | 7 | | | ď | 4 (| | 45 4 | | | 202 | \$ 2,745 \$ 4.123 |
| 17.8 Final Structures PS&E | 4 | 8 | | | 4 | | 82 | | | 108 | - |
| 18.0 Permit Applications/Environmental Commitments Record | œ | - | | | 16 | 36 | | 80 | | 89 | \$ 9,776 |
| | - | _ | pos. | - | ć | ç | 6 | _ | | • | |

| MANHOUR WORKSHEET | | | | | | | | |
|-----------------------------------------------------|-------------|----|-----------------|--------------------------|--------------------------|-----|----------------------------|--------|
| COMPANY | | | | SCOPE OF WORK | RK. | | PHASE | |
| KET CONSUMING PROJECT: | | | | Fians, op | rians, opecs & Estimates | | Fridase III DATE: | |
| Jefferson Street Interchange | | | | | | | May 1, 2012 | |
| | | h | | | | | | \ |
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| | | | 1000/1000/1000/ |) 12000 12000 1 | ુ | | TOO SHOW TO THE STATE COST | 5 |
| 20.0 Project Team Meetings | | 98 | 09 | | | 106 | 216 \$ | 5,574 |
| 21.0 Project Management/Project Coordination | 25 | 80 | 400 | | | 08 | 704 \$ | 3,936 |
| 22.0 Prepare Quality Control/Quality Assurance Plan | | 4 | 24 | - | | 32 | ₩ | ,337 |
| 23.0 Perform Quality Control | | 12 | 80 20 | 0 40 | 40 | | 320 \$ 56, | 56,625 |
| 24.0 Project Scheduling | | 4 | 12 | | | 80 | 4 | 9,656 |

| Jefferson Street Interchange Total Manhours Total Manhours | Application of the state of the | | | | | May 1, 2012 | | | |
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| \$255.36 \$188.66 12 12 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 9.53 SX | | \ | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | | O SPAIS SS | | |
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| 4 8 | | 8 | | 11 1 | 11 | | | 136 | |
| 60 | 4 | 4 | | 4 | | | - | 191 | \$ 2,976 |
| | | 16 8 | | 48 | | | | | 1.7 |
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| RBF Consulting | | | | Construction | Construction Support | ¥ | | | | Phase IV | | | | |
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| PROJECT: Jefferson Street Interchange | | | | | | | | | | DATE: May 1, 2012 | 12 | | | |
| TASK | 18 do 24 | SISTANDA SIGNA SI | | | | Selfing to | N 2. | < 5 | | \ | A STATE OF THE PROPERTY OF THE | BOLD REAL STATES | | |
| | \$255.36 \$188.66 \$ | \$188.66 - \$159.53 | 3.53 \$208.59 | \$234.66 | \$157.97 | \$137.27 | X 12 | | | <u> </u> | \$187.13 | \ - | MOURS | ISO2 |
| Total Manhours | 13 13 | 888 | 132 | 11 11 | | 72 | 216 | 122 | 180 | 8 | | | 878 | |
| 1.0 Pre-Construction Meeting | 4 | 4 | | 4 | | | 4 | | - | | and indicate on the second | | 16 \$ | 2,976 |
| 2.0 Partnering Workshop | | 4 | | | | | 4 | | | | | | 8 | 1,387 |
| 3.0 Shop Drawing and Submittal Review | | 8 | 4 | 8 | | 20 | 48 | | | | | | 124 \$ | ~ |
| 4.0 Sife Visits | 12 | 24 | 24 | | | 16 | 48 | 16 | | | | | 148 \$ | l |
| 5.0 Respond to Inquires/Request for Information | 10 | 4 | 4 | 8 | | 24 | 100 | 16 | | 8 | | | 246 \$ | 41,707 |
| 6.0 Develop Final Record Drawing Plans | 2 | 8 | 24 | 8 | | 12 | 12 | 96 | 180 | | | | 336 \$ | 47,130 |
| | | *************************************** | CALCOLO DE CONTRACTOR DE CONTR | ļ | | *************************************** | | | | | | | | 1 |
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| SUBCONSULTANT FEE PROPOSAL WORKSH | LEET SCOPE OF WORK: | PHASE: |
|-----------------------------------|---------------------|-------------|
| LSA Associates | Noise Report | All Phases |
| PROJECT: | | DATE: |
| Jefferson Street Interchange | | May 1, 2012 |

| PERSONNEL | | POSITION | | HOURS | | RATE | AMOUNT |
|-----------------------------------------------------------------------------------------------|--------------|------------|------------------------------------------|-------|----------------------------------|--------------|------------|
| Tony Chung | Principal | | | 2 | 0 | \$60.61 | \$121.22 |
| Jason Lui | Senior Noise | Specialist | | 80 | @ | \$29.61 | \$2,368.80 |
| | Editing/Word | Processor | 10 | 4, | @ | \$26,03 | \$104.12 |
| killereistället lassa lassa, asia kaukkaluk tiid lähisetti jääsilläät ja killesta kaukaluksi. | GIS | | C - On the San Dalance and second before | 4 | @ | \$28.96 | \$115.84 |
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TOTAL HOURS

90

TOTAL DIRECT LABOR

\$2,709.98

MULTIPLIERS

| ESCALATION @ | | (Rates Vary by Phase) | |
|----------------------|--------|---------------------------------------------------------------|------------|
| OVERHEAD @ | 78.98% | (of Direct Labor + Escalation) | \$2,140.34 |
| PAYROLL ADDITIVES @ | 88.67% | (of Direct Lebor + Escalation) | \$2,402.94 |
| PROFIT (FIXED FEE) @ | 10.0% | (of Direct Labor + Escalation + Overhead + Payroll Additives) | \$725.33 |

TOTAL MULTIPLIERS

\$5,268.61

OTHER DIRECT COSTS

· · · Billed at Actual Cost · · ·

| Field Noise Measurement | QUANTIT [*] | Y UNIT | @ T | NIT COST \$1,000.00 | AMOUNT \$1,000.00 |
|-------------------------|----------------------|--------|-----|---------------------|----------------------|
| Mileage | 360 | Mile | @ | \$0.50 | \$180.00 |
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TOTAL ODC'S

\$1,180.00

TOTAL

\$9,158.59

| SUBCONSULTANT FEE PROPOSAL WORKSHEET | | |
|--------------------------------------|----------------|---------|
| COMPANY: | SCOPE OF WORK: | PHASE: |
| LSA Associates | Noise Report | Phase I |
| | | |
| PROJECT: | | DATE: |

| PERSONNEL | Pos | ITION | HOURS | | RATE | AMOUNT |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------|-------|-------|--------------|------------|
| Tony Chung | Principal | | 2 | 0 | \$60.61 | \$121.22 |
| Jason Lui | Senior Noise Specialist | | 80 | @ | \$29.61 | \$2,368.80 |
| | Editing/Word Processor | | 4 | 0 | \$26.03 | \$104.12 |
| | GIS | | 4 | @ | \$28.96 | \$115.84 |
| | | | | | | |
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| THE RESERVE TO BE SERVED TO THE RESERVE TO THE RESERVE | | TOTAL HOURS | 90 | TOTAL | DIRECT LABOR | \$2,709.98 |

MULTIPLIERS

| | | | RS \$5.268.61 |
|----------------------|--------|---------------------------------------------------------------|----------------------|
| PROFIT (FIXED FEE) @ | 10.0% | (of Direct Labor + Escalation + Overhead + Payroll Additives) | \$725.33 |
| PAYROLL ADDITIVES @ | 88.67% | (of Direct Labor + Escalation) | \$2,402.94 |
| OVERHEAD @ | 78.98% | (of Direct Labor + Escalation) | \$2,140.34 |
| ESCALATION @ | | (of Direct Labor) | |

OTHER DIRECT COSTS

· Billed at Actual Cost · · ·

| ITEM | વ | JANTITY | דואט | имп са | alminiation devices | ТИЦОМА |
|---------------------------------|---|---------|------|-----------------------------------------|---------------------|------------|
| Field Noise Measurement Mileage | | 1 | LS | escione divide an all parallel services | 1,000.00 | \$1,000.00 |
| Wileage | | 360 | Mile | @ | \$0.50 | \$180.00 |
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| | | | | TOT | AL ODC'S | \$1 180 00 |

TOTAL ODC'S

\$1,180.00

TOTAL \$9,158.59

| SUBCONSULTANT MANHOUR WORKSHEET SUMMARY | |
|-----------------------------------------|------------------------------------------|
| COMPANY. | |
| LSA Associates | Noise Report All Phases |
| PROJECT. | <u>lonπ.</u> |
| Jefferson Street Interchange | May 1, 2012 |
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| TASK | |
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| | \$178.44 \$87.18 \$76.64 \$85.26 |
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| PHASE1 | 2 80 4 |
| PHASE I | |
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| PHASE III | |
| PHASEIV | |
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| List Annealment Properties Properties | SUBGONSULVAN, WANHOUR WORKSHIFF. | | | | 10000 | NOOW | | | | PHASE | | | | |
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| Part Strict Str | | | | | Noise | | | | | Pha | se I | | | |
| 8 19 14 | nterchange | | | | | | | | | May | 1, 2012 | | | |
| 2 80 4 4 4 80 80 80 80 80 80 80 80 80 80 80 80 80 | TASK | 1 1 | Wide St. B. St. St. St. St. St. St. St. St. St. St | OR BOOK OF STREET | | | | | | | | | | |
| 2 80 4 4 | | \$87.18 | 6.64 \$8! | 5.26 | | | | | | | | | Hours | COST |
| S | Total Manhours | | 4 | 4 | | | | | | | | | | |
| | 4.5 Noise Impact Analysis | | 4 | 4 | | | | | | | | | 06 | |
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| SUBCONSULTANT FEE PROPOSAL WORKSHEET | | |
|--------------------------------------|----------------------------|-------------|
| COMPANY: | SCOPE OF WORK: | PHASE: |
| Earth Mechanics, Inc. | Geotechnical Investigation | All Phases |
| PROJECT: | | DATE: |
| Jefferson Street Interchange | | May 1, 2012 |

| PERSONNEL Lino Cheang | POSITION Project Manager | HOURS 90 | 0 | RATE \$73.00 | AMOUNT \$6,570.00 |
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| Andy Korkos | Principal Engineer | 360 | @ | \$58.75 | \$21,150.00 |
| C.T. Yang | Senior Project Engineer | 310 | @ | \$39,85 | \$12,353.50 |
| Reynold Jie | Senior Technician | 208 | @ | \$45,10 | \$9,380.80 |
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| MEANAGE SEPARATION OF THE PROCESS OF | TOTAL HOL | RS 968 | TOTAL | DIRECT LABOR | \$49,454.30 |

MULTIPLIERS

| PROFIT (FIXED FEE) @ | 10.0% | (of Direct Labor + Escalation + Overhead + Payroll Additives) | \$13,105.39 |
|----------------------|---------|---------------------------------------------------------------|-------------|
| PAYROLL ADDITIVES @ | | (of Direct Labor + Escalation) | |
| OVERHEAD @ | 165.00% | (of Direct Labor + Escalation) | \$81,599.60 |
| ESCALATION @ | | (Rates Vary by Phase) | |

TOTAL MULTIPLIERS

\$94,704.98

OTHER DIRECT COSTS

· Billed at Actual Cost · · ·

| DITIEN DINEOT GOOTG | "" Dilled at Actual Cost "" | | | | | |
|-------------------------|----------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------|---|-------------|--------------------|
| | ITEM | QUANTITY | TINU | | UNITCOST | AMOUNT |
| Drilling Rig Rental | | 98 | Hour | @ | \$280.00 | \$27,440.00 |
| Traffic control | - AND STATE OF A TAX STATE OF A STATE OF THE STATE OF A | 4 | Day | @ | \$1,200.00 | \$4,800.00 |
| Soil Laboratory Testing | | 1 | Each | @ | \$13,300.00 | \$13,300.00 |
| Shipping | | 1 | Each | @ | \$250.00 | \$250.00 |
| LaBelle-Marvin | | 1 | Lump Sum | 0 | \$20,185.00 | \$20,185.00 |
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| | | | | | TOTAL ODC'S | t ee 075 00 |

TOTAL ODC'S

\$65,975.00

TOTAL

\$210,134.28

| SUBCONSULTANT FEE PROPOSAL WORKSHEET | Commission of the Commission o | A CONTRACTOR |
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| COMPANY: | SCOPE OF WORK: | PHASE: |
| Earth Mechanics, Inc. | Geotechnical Investigation | Phase II |
| PROJECT: | | DATE: |
| Jefferson Street Interchange | | May 1, 2012 |

| PERSONNEL | POSITION | HOURS | | RATE | AMOUNT |
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| Lino Cheang | Project Manager | 90 | @ | \$73.00 | \$6,570.00 |
| Andy Korkos | Principal Engineer | 232 | @ | \$58.75 | \$13,630.00 |
| C.T. Yang | Senior Project Engineer | 310 | @ | \$39,85 | \$12,353.50 |
| Reynold Jie | Senior Technician | 208 | @ | \$45.10 | \$9,380.80 |
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| | TOTAL I | HOURS 840 | TOTAL | DIRECT LABOR | \$41,934.30 |

MULTIPLIERS

| ESCALATION @ | (of Direc | ct Labor) | | |
|----------------------|--------------------|------------------------------------------|---------------|-------------|
| OVERHEAD @ | 165.00% (of Direct | ct Labor + Escalation) | | \$69,191.60 |
| PAYROLL ADDITIVES @ | (of Dire | ct Labor + Escalation) | | |
| PROFIT (FIXED FEE) @ | 10.0% (of Direct | ct Labor + Escalation + Overhead + Payro | II Additives) | \$11,112.59 |

TOTAL MULTIPLIERS \$80,304.18

OTHER DIRECT COSTS

· Billed at Actual Cost · · ·

| | Cost ··· | | | | |
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| EM | QUANTITY | UNIT | | UNIT COST | AMOUNT |
| Tani i Fana ana an | 98 | Hour | 0 | \$280.00 | \$27,440.00 |
| 8. S. 1866 C. Martin Martin Charles Company of the State of the Company of the State of the Stat | 4 | Day | @ | \$1,200.00 | \$4,800.00 |
| | 1 | Each | 0 | \$13,300.00 | \$13,300.00 |
| | 1 | Each | @ | \$250.00 | \$250.00 |
| | 1 | Lump Sum | 0 | \$20,185.00 | \$20,185.00 |
| | | | | | |
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| | | | | | |
| | | 98 | 98 Hour 4 Day 1 Each 1 Each 1 Lump Sum | 98 Hour @ 4 Day @ 1 Each @ 1 Each @ 1 Lump Sum @ | 98 Hour @ \$280.00 4 Day @ \$1,200.00 1 Each @ \$13,300.00 1 Each @ \$250.00 1 Lump Sum @ \$20,185.00 |

TOTAL ODC'S

\$65,975.00

TOTAL

\$188,213.48

| SUBCONSULTANT FEE PROPOSAL W | ORKSHEET | |
|------------------------------|----------------------------|-------------|
| COMPANY: | SCOPE OF WORK: | PHASE: |
| Earth Mechanics, Inc. | Geotechnical Investigation | Phase IV |
| PROJECT: | | DATE: |
| Jefferson Street Interchange | | May 1, 2012 |

| PERSONNEL | POSITION | HOURS | RATE | AMOUNT |
|-------------|-------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Lino Cheang | Project Manager | | | 573.00 |
| Andy Korkos | Principal Engineer | 128 | | \$58.75 \$7,520.00 |
| C.T. Yang | Senior Project Engineer | | 1 | \$39.85 |
| Reynold Jie | Senior Technician | | \$ | \$45.10 |
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| | TOTA | L HOURS 128 | TOTAL DIRECT I | LABOR \$7,520 |

MULTIPLIERS

| ESCALATION @ | (of Direct Labor) | |
|----------------------|--------------------------------------------------------------------|-------------|
| OVERHEAD @ | 165.00% (of Direct Labor + Escalation) | \$12,408.00 |
| PAYROLL ADDITIVES @ | (of Direct Labor + Escalation) | |
| PROFIT (FIXED FEE) @ | 10.0% (of Direct Labor + Escalation + Overhead + Payroll Additives | \$1,992.80 |

TOTAL MULTIPLIERS \$14,400.80

OTHER DIRECT COSTS

· Billed at Actual Cost · · ·

| | Dilloc at 7 totaal Oost | | | | |
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| ITEM ! | | QUANTITY | UNIT | UNIT COST | AMOUNT |
| Drilling Rig Rental | 7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | | Hour | \$280.00 | |
| Traffic control | | | Day | \$1,200.00 | |
| Soil Laboratory Testing | | | Each | \$13,300.00 | |
| Shipping | | | Each | \$250.00 | |
| LaBelle-Marvin | | | Lump Sum | \$20,185.00 | |
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| engers waterwere 2 service state et al. i i indice partie in 1, a. of peer 2 generalises et a. in entregocial et alege | 2000 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - | | enter, vinner, energia, deletar deletar energia del como del como del como del como del como del como del como El como del como del El como del | | AN LONG LONG LINES AND |
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| | | Property (Plant 1965) | | | |
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TOTAL ODC'S

TOTAL \$21,920.80

| SUBCONSULTANT MANHOUR WORKSHEET SUMMARY COMPANY. | Rawlonder | | A STATE | | SCOPE OF WORK | SK. | | | | PHASE: | | | |
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| Earth Mechanics, Inc. | | | | | Geotechni | Geotechnical Investigation | ou | | | All Phases | | | |
| | | | | *************************************** | na přískych nakrypových vyproje poplatena nazavane | | | *************************************** | *************************************** | may 1, 2012 | | | |
| | | | | 43.8% | | | | | | | | | |
| TASK | | ES O BANG | de jago de la companya de la company | ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO ONIGO | | | | \setminus | | | | | |
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| | \$212.80 | \$171.26 | \$116.16 | \$131.47 | | | | | | | , | | |
| PHASE TOTALS | 06 | 360 | 310 | 208 | | - | | | | | | 896 | |
| PHASEI | | | | | | | | | | | | | :volasee |
| PHASE II | 96 | 232 | 310 | 208 | | | | | | | | 840 | |
| PHASE III | | | | | | | | | | | | | estronació de ca |
| PHASE IV | | 128 | | | | | | | | | | 128 | SCAN PROVIN |

| Photostate Pho | COMPANY | | ACCESS NOT NOT SERVED BY | A STATE OF THE PARTY OF THE PAR | | SCOPE OF WORK | CORK | CANADAM PROPERTY AND ASS. | THE STATE OF STATE OF SECTIONS ASSESSED. | State of the state | The Control of the Co | Printed by the second of the last of the l | | |
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| SECTION STATE STATE STATE SECTION STATE SEC | Earth Mechanics, Inc. | | | | | Geotec | hnical Investi | jation | | | Phase | = | | |
| 100 Stopy (subcorneullant) 100 Stopy (subcorneullant) 101 Stopy (subcorneullant) 102 Stopy (subcorneullant) 103 Stopy (subcorneullant) 104 Stopy (subcorneullant) | Provect: Jefferson Street Interchange | | | | | 38 l | | | | | May 1 | , 2012 | | |
| 99 Report 6 2 3 10 2 10 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | TASK | | CHOANAN CARLE | SHARING THE STATES | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | The June | | | | | | | Hours | 2005 |
| 90 | | \$212.80 | \$171.26 | 5116.16 5 | 3131.47 | | | | | | | | | |
| 90 Researt 60 80 140 64 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Total Manhours | 06 | 232 | 310 | 208 | | | | | | | | 840 | |
| on Study (subcornsultaint) on Study (subcornsultaint) on Study (subcornsultaint) | 9.1 Geotechnical Design Report | 09 | 80 | 140 | 64 | | | | | | | - | 344 | \$ 51,145 |
| 16 56 110 44 1 1 1 1 1 1 1 1 | 9.2 Materials Report | 10 | 84 | 20 | 30 | - | | | | | | | 144 | \$ 22,781 |
| 4 12 44 70 70 70 70 70 70 70 | 9.3 Foundation Report | 16 | 26 | 110 | 4 | | | | | | | | 226 | \$ 31,557 |
| 9.5 Provincit Defection Study (sincornalism) 1. | 9.4 Infiltration Testing | 4 | 12 | 40 | 20 | | | | | | | | 126 | \$ 16,755 |
| | 9.5 Pavement Deflection Study (subconsultant) | | | | | | | | | | | | | |
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| Earth Mechanics, Inc. PROJECT: Jefferson Street Interchange ITASK | | | Charles and American Committee of the | A STAN GOOD AND ALL CONTROLLED TO A STAN A S | Ohae | Phase IV | | | 200 |
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| n Street Intercha | | Geotechnical Investigation | | - 5 | + | Continued the daylette man | | in the second se | |
| TASK | | | | | DATE: May 1 | Nay 1, 2012 | | | |
| | SO TO | 13110 18 18 18 18 18 18 18 18 18 18 18 18 18 | | | | | | | C 4 (0) |
| | \$212.80 \$171.26 \$116.16 \$ | | | | | | Alours | LSOD | |
| Total Manhours | 128 | | | | | | 128 | | |
| 1.0 Pre-Construction Meeting | 8 | | | | | | 8 | \$ 1,370 | 20 |
| 3.0 Shop Drawing and Submittal Review | 40 | | | | | | - | | 50 |
| 5.0 Site Visits | 40 | - | | | | | 4 | \$ 6,850 | 20 |
| 6.0 Respond to Inquires/Request for Information | 40 | | | | - | | 40 | \$ 6,850 | 50 |
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| SUBCONSULTANT FEE PROPOSAL WORK | KSHEET | |
|---------------------------------|-----------------------------------|-------------|
| COMPANY: | SCOPE OF WORK: | PHASE: |
| Applied Earthworks | Cultural Field Work/Data Recovery | All Phases |
| PROJECT: | | DATE: |
| Jefferson Street Interchange | | May 1, 2012 |

| | TOTAL HOUI | RS 4.052 | TOTA | AL DIRECT LABOR | \$133,295.00 |
|----------------------|---------------------------------|-----------------|------|-----------------|--------------|
| Suzanne Bircheff | Administrative Assistant | 66 | @ | \$28.00 | \$1,848.00 |
| Cari Inoway | Graphics Specialist | 56 | 0 | \$28.60 | \$1,601.60 |
| Susan Rapp | Publications Manager | 128 | @ | \$32.10 | \$4,108.80 |
| Rebecca McKim | Faunal Analyst | 172 | 0 | \$29.70 | \$5,108.40 |
| Douglas Harro | Lithics Analyst | 156 | @ | \$29.70 | \$4,633.20 |
| | Data-entry Specialist | 80 | @ | \$17.00 | \$1,360.00 |
| | Laboratory Technicians | 640 | @ | \$23.10 | \$14,784.00 |
| Kholood Abdo-Hintzma | Laboratory Director | 224 | 0 | \$26.80 | \$6,003.20 |
| | Field Technicians | 1,216 | @ | \$23.10 | \$28,089.60 |
| Michale Mirro | Cartographer/GPS/GIS Specialist | 100 | 0 | \$30.70 | \$3,070.00 |
| Cari Inoway | Assistant field Director | 136 | @ | \$28.60 | \$3,889.60 |
| Dennis McDougall | Field Director | 238 | œ i | \$30,70 | \$7,306.60 |
| Michael Moratto | Principal Investigator | 832 | @ | \$61.30 | \$51,001.60 |
| Susan Goldenberg | Project Administrator | 8 | 0 | \$61.30 | \$490.40 |
| PERSONNEL | POSITION | HOURS | | RATE | AMOUNT |

MULTIPLIERS

| ESCALATION @ | (Rates Vary by Phase) | |
|----------------------|---------------------------------------------------------------------|--------------|
| OVERHEAD @ | 112.10% (of Direct Labor + Escalation) | \$149,423.70 |
| PAYROLL ADDITIVES @ | 14.80% (of Direct Labor + Escalation) | \$19,727.66 |
| PROFIT (FIXED FEE) @ | 10.0% (of Direct Labor + Escalation + Overhead + Payroll Additives) | \$30,244.64 |

TOTAL MULTIPLIERS \$199,395.99

OTHER DIRECT COSTS

· Billed at Actual Cost · · ·

| QUANTITY | UNIT | | UNIT GOST | AMOUNT |
|----------|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6500 | Mile | œ | \$0.50 | \$3,250.00 |
| 170 | Day | @ | \$110.00 | \$18,700.00 |
| 11 | Day | 0 | \$90.00 | \$990.00 |
| 15 | Day | @ | \$40.00 | \$600.00 |
| 3 | Week | œ i | \$500.00 | \$1,500.00 |
| 120 | Gallons | @ | \$3.25 | \$390.00 |
| 2 | Each | ' @ | \$450.00 | \$900.00 |
| 1 | Lump Sum | @ | \$2,600.00 | \$2,600.00 |
| 1 | Lump Sum | @ | \$5,400.00 | \$5,400.00 |
| 1 | Lump Sum | @ | \$14,311.00 | \$14,311.00 |
| 1 | Lump Sum | @ | \$5,280.00 | \$5,280.00 |
| 1 | Lump Sum | @ | \$16,500.00 | \$16,500.00 |
| 1 : | Lump Sum | 0 | \$9,350.00 | \$9,350.00 |
| 1 | Lump Sum | @ | \$15,290.00 | \$15,290.00 |
| 1 | Lump Sum | 0 | \$17,600.00 | \$17,600.00 |
| | 6500 170 11 15 3 120 2 1 1 1 1 | 6500 Mile 170 Day 11 Day 15 Day 3 Week 120 Gallons 2 Each 1 Lump Sum 1 Lump Sum | 6500 Mile @ 170 Day @ 11 Day @ 11 Day @ 15 Day @ 3 Week @ 120 Gallons @ 2 Each @ 1 Lump Sum @ | 6500 Mile @ \$0.50 170 Day @ \$110.00 11 Day @ \$90.00 15 Day @ \$40.00 3 Week @ \$500.00 120 Gallons @ \$3.25 2 Each @ \$450.00 1 Lump Sum @ \$2,600.00 1 Lump Sum @ \$14,311.00 1 Lump Sum @ \$14,311.00 1 Lump Sum @ \$16,500.00 1 Lump Sum @ \$19,350.00 1 Lump Sum @ \$15,290.00 |

TOTAL ODC'S \$112,661.00

TOTAL \$445,351.99

| SUBCONSULTANT FEE PROPOSAL WORKSHEET | | |
|--------------------------------------|---------------------------------------------------|-------------------|
| Applied Earthworks | SCOPE OF WORK: Cultural Field Work/Data Recovery | PHASE: Phase I |
| PROJECT: | | DATE: |
| Jefferson Street Interchange | | May 1, 2012 |

| | TOTAL HOU | RS 4.052 | TOTA | L DIRECT LABOR | \$133,295,00 |
|----------------------|---------------------------------|----------|----------|----------------|--------------|
| Suzanne Bircheff | Administrative Assistant | 66 | @ | \$28.00 | \$1,848.00 |
| Cari Ineway | Graphics Specialist | 56 | @ | \$28.60 | \$1,601.60 |
| Susan Rapp | Publications Manager | 128 | @ | \$32.10 | \$4,108.80 |
| Rebecca McKim | Faunal Analyst | 172 | 0 | \$29.70 | \$5,108.40 |
| Douglas Harro | Lithics Analyst | 156 | @ | \$29.70 | \$4,633.20 |
| | Data-entry Specialist | 80 | @ | \$17.00 | \$1,360.00 |
| | Laboratory Technicians | 640 | @ | \$23.10 | \$14,784.00 |
| Kholood Abdo-Hintzma | Laboratory Director | 224 | 0 | \$26.80 | \$6,003.20 |
| | Field Technicians | 1,216 | @ | \$23.10 | \$28,089.60 |
| Michale Mirro | Cartographer/GPS/GIS Specialist | 100 | 0 | \$30.70 | \$3,070.00 |
| Cari Inoway | Assistant field Director | 136 | @ | \$28.60 | \$3,889.60 |
| Dennis McDougall | Field Director | 238 | œ. | \$30.70 | \$7,306.60 |
| Michael Moratto | Principal Investigator | 832 | @ | \$61.30 | \$51,001.60 |
| Susan Goldenberg | Project Administrator | 8 | @ | \$61,30 | \$490.40 |
| PERSONNEL | POSITION POSITION | HOURS | | RATE | AMOUNT |

MULTIPLIERS

| PROFIT (FIXED FEE) @ | 10.0% (of Direct Labor + Escalation + Overhead + Payroll Additive | s) \$30,244.64 |
|----------------------|-------------------------------------------------------------------|----------------|
| PAYROLL ADDITIVES @ | 14.80% (of Direct Labor + Escalation) | \$19,727.66 |
| OVERHEAD @ | 112.10% (of Direct Labor + Escalation) | \$149,423.70 |
| ESCALATION @ | (of Direct Labor) | |

TOTAL MULTIPLIERS \$199,395.99

OTHER DIRECT COSTS

· Billed at Actual Cost · · ·

| Miscellaneous Technical Analysis and Special Studies | 1 | Lump Sum | @ | \$15,290.00 | \$15,290.00 |
|------------------------------------------------------|------------------|----------|-----|---------------------|--------------|
| Statistical Research | 1 | Lump Sum | 0 | \$9,350.00 | \$9,350.00 |
| SWCA (cremation analysis) | 1 | Lump Sum | @ | \$16,500.00 | \$16,500.00 |
| Beta Analytical | 1. | Lump Sum | 0 | \$5,280.00 | \$5,280.00 |
| Torres-Martinez - Native American Monitoring | 1 | Lump Sum | @ | \$14,311.00 | \$14,311.00 |
| Printing and Shipping | 1 | Lump Sum | . 0 | \$5,400.00 | \$5,400.00 |
| Supplies including Curation Material | 1 | Lump Sum | @ | \$2,600.00 | \$2,600.00 |
| Field Toilet Rental | 2 | Each | 0 | \$450.00 | \$900.00 |
| Fuel for Truck | 120 | Gallons | @ | \$3.25 | \$390.00 |
| Trunk Rental | 3 | Week | @ | \$500.00 | \$1,500.00 |
| Meals | 15 | Day | @ | \$40.00 | \$600.00 |
| Lodging | 11 | Day | @ | \$90.00 | \$990.00 |
| Per Diem | 170 | Day | @ | \$110.00 | \$18,700.00 |
| Mileage | 6500 | Mile | 0 | \$0.50 | \$3,250.00 |
| ITEM Mileage | QUANTITY 6500 | Mile | | UNIT COST 2 12 12 1 | AVOUN \$3 |

TOTAL \$445,351.99

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| Auffracon Street Interchange Train | 576.62 576.62 40 40 40 40 | Cultural Field Work/Data Recovery Cultural Field Work/Data Recovery Soft 66 1,216 1,200 16 8 1,200 16 24 24 | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 12 Recovery 13 Recovery 14 Coff Coff Coff Coff Coff Coff Coff Cof | A STATE OF THE STA | To he to the second sec | 4 4 9 C | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 56 66 44, 224 10 12 12 12 12 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15 | 66 8.9 66 4,052 12 292 12 1,574 10 410 10 410 | \$ 35,770 \$ 103,397 \$ 58,841 \$ 58,841 \$ 76,017 \$ 15,363 |
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| SUBCONSULTANT FEE PROPOSAL WORKSHEET | | |
|--------------------------------------|-----------------|-------------|
| COMPANY: | SCOPE OF WORK: | PHASE: |
| Green Communication | Public Outreach | All Phases |
| PROJECT: | | DATE: |
| Jefferson Street Interchange | | May 1, 2012 |

| PERSONNEL | POSITION | HOURS | | RATE | AMOUNT |
|----------------------------------------------------------------------------------------------------------------|--------------------------|---------------|------------------------------|--------------|-------------|
| Dennis Green | President | 210 | 0 | \$135.00 | \$28,350.00 |
| John Robles | Graphics and Web Support | 145 | @ | \$86.00 | \$12,470.00 |
| Angela Green | Administrative Support | 70 | 0 | \$48.00 | \$3,360.00 |
| Kimley Jones | Administrative Support | 50 | @ | \$48.00 | \$2,400.00 |
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| | | | 68 (287) (29) (39) (49) (49) | | |
| | TOTAL HOU | RS 475 | TOTAL | DIRECT LABOR | \$46,580.00 |

| MULTIPLIERS | | | |
|----------------------|------------------|----------------------------------------------|--|
| ESCALATION @ | (Rates Vary by F | Phase) | |
| OVERHEAD @ | (of Direct Labor | + Escalation) | |
| PAYROLL ADDITIVES @ | (of Direct Labor | + Escalation) | |
| PROFIT (FIXED FEE) @ | (of Direct Labor | + Escalation + Overhead + Payroll Additives) | |

TOTAL MULTIPLIERS

OTHER DIRECT COSTS

· Billed at Actual Cost · · ·

| ITEM | QUANTITY | UNIT | UNIT COST | AMOUNT |
|------|----------|------|-------------|--------|
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TOTAL ODC'S

TOTAL \$46,580.00

| SUBCONSULTANT FEE PROPOSAL WO | ORKSHEET | |
|-------------------------------|-----------------|-------------|
| COMPANY: | SCOPE OF WORK: | PHASE: |
| Green Communication | Public Outreach | Phase I |
| PROJECT: | | DATE: |
| Jefferson Street Interchange | | May 1, 2012 |

| PERSONNEL | POSITION | HOURS | | RATE | AMOUNT |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| Dennis Green | President | 60 | 0 | \$135.00 | \$8,100.00 |
| John Robles | Graphics and Web Support | 20 | @ | \$86.00 | \$1,720.00 |
| Angela Green | Administrative Support | 20 | 0 | \$48.00 | \$960.00 |
| Kimley Jones | Administrative Support | Association and a material relation of the set of the s | r jetorno tronski kilotora raprada | \$48.00 | |
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| · · | TOTAL | HOURS 100 | TOTAL | DIRECT LABOR | \$10,780.00 |

MULTIPLIERS

OTHER DIRECT COSTS

| ESCALATION @ | (of Direct Labor) |
|----------------------|---------------------------------------------------------------|
| OVERHEAD @ | (of Direct Labor + Escalation) |
| PAYROLL ADDITIVES @ | (of Direct Labor + Escalation) |
| PROFIT (FIXED FEE) @ | (of Direct Labor + Escalation + Overhead + Payroll Additives) |

· · · Billed at Actual Cost · · ·

TOTAL MULTIPLIERS

TEM QUANTITY UNIT COST AMOUNT

TOTAL ODC'S

TOTAL \$10,780.00

| SUBCONSULTANT FEE PROPOSAL WORKSHEET | | |
|--------------------------------------|-----------------|-------------|
| COMPANY: | SCOPE OF WORK: | PHASE: |
| Green Communication | Public Outreach | Phase IV |
| PROJECT: | | DATE: |
| Jefferson Street Interchange | | May 1, 2012 |

| PERSONNEL | POSITION | | HOURS | | RATE | AMOUNT |
|--------------|--------------------------|------------------------------------------------------|-------|----------|--------------|-------------|
| Dennis Green | President | | 150 | 0 | \$135.00 | \$20,250.00 |
| John Robles | Graphics and Web Support | iai Paliai Pala - Nober y wyddigo diglan weel dai be | 125 | @ | \$86.00 | \$10,750.00 |
| Angela Green | Administrative Support | | 50 | 0 | \$48.00 | \$2,400.00 |
| Kimley Jones | Administrative Support | | 50 | @ | \$48.00 | \$2,400.00 |
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| | | TOTAL HOURS | 375 | TOTAL | DIRECT LABOR | \$35,800.00 |

MULTIPLIERS

| ESCALATION @ | (of Direct Labor) |
|----------------------|---------------------------------------------------------------|
| OVERHEAD @ | (of Direct Labor + Escalation) |
| PAYROLL ADDITIVES @ | (of Direct Labor + Escalation) |
| PROFIT (FIXED FEE) @ | (of Direct Labor + Escalation + Overhead + Payroll Additives) |

TOTAL MULTIPLIERS

OTHER DIRECT COSTS

· · · Billed at Actual Cost · · ·

| QUANTITY UNIT UNIT COST AMOUNT |
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TOTAL ODC'S

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| SUBCONSULTANT MANHOUR WORKSHEET SUMMARY | UR WORKS | WELLER | MINARY | | | | | | | | | A MARIE | | | | | |
|-----------------------------------------|----------|----------------------------------------|-----------------|---------|------------|-----------------|---------|------|---|----|---|---------|-------------|----------|---|-------|--|
| Green Communication | | | | | | Public Outreach | utreach | | | | | All P | hases | | | | |
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| | \$135.00 | \$86.00 | \$48.00 | \$48.00 | | | | | | | - | | | | | | |
| PHASE TOTALS | 210 | 145 | 70 | 50 | | | | | | | | | | | | 475 | |
| PHASE | 09 . | 20 | 20 | | | | | 3496 | | | | | | - 100 mg | | 100 | |
| PHASE II | | | | | | | | | | | | | | | | | |
| PHASEIII | | | | | | | | | | | | | | | | | |
| PHASE IV | 150 | 125 | 20 | 98 | | | | | | | | | | | | 375 | |

| Total Manhours Total Manhours 4.26 Public Outreach and Communication 60 20 | 20 S S S S S S S S S S S S S S S S S S S | S48.00 S48.00 S48.00 | | | | May 1, 2012 | 7, 2012 | 100 s | 10,780 |
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| Green Communication | | Ordinates statement | 1968 St. 1984 St. 198 | Military appreciation | ď | Public Outreach | each | | | | <u> </u> | Phase IV | | | |
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| ROJECT: Jefferson Street Interchange | | | | | | | | | | | DAT X | ATE: Мау 1, 2012 | | | |
| TASK | | | Pan de Carlos | TALIBLISHING BORGES TALIBRING BALIBRISHING | CHOCKETS THE TRANSPORT | | | | | | | | | | |
| | \$135.00 \$8 | | 8:00.8 | 48:00 | | | | | | | | | Alouins | | - - - - - |
| Total Manhours | 150 | 125 | 50 | 50 | | | | | | | | | | 375 | |
| 9.0 Public Outreach and Communication | 150 | 125 | 20 | 20 | | | - | | | | - | | | 375 \$ | 35,800 |
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