

**CITY OF EL PASO, TEXAS  
AGENDA ITEM  
DEPARTMENT HEAD'S SUMMARY FORM**

**DEPARTMENT:** Sun Metro and Engineering and Construction Management

**AGENDA DATE:** May 10, 2011

**CONTACT PERSON NAME AND PHONE NUMBER:** Jay Banasiak, Director, Sun Metro 534-5810 and  
R. Alan Shubert, P.E., City Engineer 541-4423

**DISTRICT(S) AFFECTED:** 3, 6, 7, 8

**SUBJECT:**

That the City Manager be authorized to sign the Agreement for Professional Services by and between the City of El Paso and Lockwood, Andrews & Newman, Inc., a Texas Corporation, for a project known as "Alameda Bus Rapid Transit (Alameda BRT)" for an amount not to exceed One Million Nine Hundred Fifty Thousand and 00/100 Dollars (\$1,950,000.00) and that the City Engineer be authorized to approve up to \$50,000.00 in additional services for a total contract amount not to exceed Two Million 00/100 Dollars (\$2,000,000.00).

**BACKGROUND / DISCUSSION:**

The project is part of the City's implementation of the Bus Rapid Transit program for the Alameda Corridor which is set to provide service from the Downtown Transfer Center to the Mission Valley Transit Terminal. The contract provides engineering services for the design of the system to include: BRT station design, pedestrian amenities, communication system links, coordination with TXDOT, traffic modeling, traffic control, signing, striping, complete street design (landscape, lighting, sidewalks, amenities), utility service/relocation coordination, security system, branding (for all four corridors), and assist the City with public outreach efforts (City will take the lead). The design is scheduled for one year completion and is scheduled to bid for construction in April 2012. Public Art is being done as part of the project and will be coordinated with this design contract.

LAN was selected through the City's AE selection process, which is qualifications based. Attached is the AE selection summary.

**PRIOR COUNCIL ACTION:**

N/A

**AMOUNT AND SOURCE OF FUNDING:**

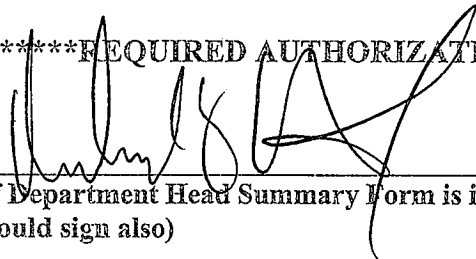
\$1,950,000.00      2009 Certificates of Obligation

**BOARD / COMMISSION ACTION:**

This same item is on the Mass Transit Department Board agenda May 10, 2011.

\*\*\*\*\*REQUIRED AUTHORIZATION\*\*\*\*\*

**DEPARTMENT HEAD:**

  
(If Department Head Summary Form is initiated by Purchasing, client department should sign also)

*Information copy to appropriate Deputy City Manager*

## RESOLUTION

### BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF EL PASO:

That the City Manager be authorized to sign the Agreement for Professional Services by and between the City of El Paso and Lockwood, Andrews & Newman, Inc., a Texas Corporation, for a project known as "Alameda Bus Rapid Transit (Alameda BRT)" for an amount not to exceed One Million Nine Hundred Fifty Thousand and 00/100 Dollars (\$1,950,000.00) and that the City Engineer be authorized to approve up to \$50,000.00 in additional services for a total contract amount not to exceed Two Million 00/100 Dollars (\$2,000,000.00).

ADOPTED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 2011.

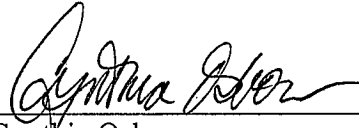
CITY OF EL PASO:

\_\_\_\_\_  
John F. Cook, Mayor

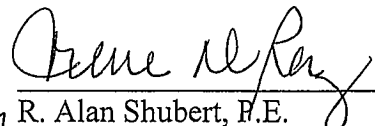
ATTEST:

\_\_\_\_\_  
Richarda Duffy Momsen, City Clerk

APPROVED AS TO FORM:

  
\_\_\_\_\_  
Cynthia Osborn  
Assistant City Attorney

APPROVED AS TO CONTENT

  
\_\_\_\_\_  
for R. Alan Shubert, P.E.  
City Engineer

CITY CLERK DEPT.  
2011 MAY -2 PM 12:27



# A/E SELECTION SUMMARY

CITY CLERK DEPT.  
2011 MAY -2 PM 12:27

**Project Name:** Bus Rapid Transit (BRT) - Alameda Corridor

**Department Requesting Service:** Sun Metro

**District/ Representative:** Districts: 3, 6, 7, & 8

## SHORTLIST

**RFQ Notification Date:** 8/23/2010

**RFQ Due Date:** 9/13/2010

### SHORTLIST COMMITTEE

Michael Herrera, Assistant Director for Sun Metro

Kyle Ibarra, Traffic Engineer

Sam Rodriguez, Engineering Division Manager

Harold Kutz, Engineering Division Manager

Johanes Makahube, Engineering Division Manager

**SCORING SHEETS ISSUED:** 09/14/2010

**SCORING SHEETS DUE:** 09/28/2010

**FINAL RANKING DATE:** 09/28/2010

**FIRMS NOTIFIED DATE:** 09/28/2010

### A/E FIRMS THAT SUBMITTED RFQ PACKAGE

1 Jacobs Engineering Group

2 URS Corporation

5 HDR Engineering

3 Lockwood, Andrews, and Newman

6 Televent Farradyne

3 Huitt - Zollars, Inc.

7 AIA Engineers

## FINAL SELECTION

### PRESENTATION COMMITTEE

Alan Shubert, City Engineer

Irene Ramirez, Assistant City Engineer

Jay Banasiak, Sun Metro Director

Mathew McElroy, Planning and Economic Development

Daryl W. Cole, Streets & Facilities Maintenance Director

**PRESENTATION DATE:** 12/1/2010

**FIRMS NOTIFIED DATE:** 12/1/2010

### FINALISTS

Jacobs Engineering Group

Huitt - Zollars, Inc.

URS Corporation

Lockwood, Andrews and Newman

Lockwood, Andrews and Newman

TBD

TBD

**SELECTED CONSULTANT:**

**SCOPING MEETING:**

**FEE PROPOSAL DUE:**

THE STATE OF TEXAS )  
 )  
COUNTY OF EL PASO )

AN AGREEMENT FOR  
PROFESSIONAL SERVICES

This Agreement is made this \_\_\_\_ day of \_\_\_\_\_, 2011 by and between the CITY OF EL PASO, a municipal corporation organized and existing under the laws of the State of Texas, hereinafter referred to as the "Owner", and LOCKWOOD, ANDREWS & NEWMAN, INC., a Texas Corporation, hereinafter referred to as the "Consultant".

WHEREAS, the Owner intends to engage the Consultant to perform professional services for a project known as "ALAMEDA BUS RAPID TRANSIT (ALAMEDA BRT)," hereinafter referred to as the "Project", as further described in Attachment "A"; and

WHEREAS, the Consultant has been selected to perform such services as required by the Owner, and the Consultant was selected through the Owner's selection procedure, in accordance with all applicable state and local laws and ordinances;

NOW, THEREFORE, for the consideration set forth in this Agreement and its attachments, the Owner and Consultant agree as follows:

ARTICLE I.  
ATTACHMENTS

1.1 The attachments listed herein and attached to this Agreement are incorporated herein by reference for all purposes.

Attachment "A"	Scope of Services and Project Budget
Attachment "B"	Consultant's Fee Proposal and Hourly Rates
Attachment "C"	Consultant's Basic and Additional Services
Attachment "D"	Payment and Deliverable Schedules
Attachment "E"	Certificate of Insurance

ARTICLE II.  
PROJECT

2.1 The Owner hereby agrees to retain the Consultant and the Consultant agrees to perform professional services for the Project as professional consultant for the Project. The Project shall consist of the Consultant's completion of the Scope of Services as further described in Attachment "A". Such Scope of Services shall be completed in accordance with the identified phases described in Attachment "D".

2.2 In completion of such phases, the Consultant shall comply with the City of El Paso Engineering Department Construction Document Guidelines in effect on the execution date of

CITY CLERK DEPT.  
2011 MAY -2 PM 12:27

this Agreement in the performance of the services requested under the Design Phase of this Agreement. Such Guidelines are available in the Engineering Department.

**2.3** The Consultant shall serve as the Owner's professional representative in those phases of the Project to which this Agreement applies and shall give consultation and advice to the Owner during the performance of services.

**2.4** The Owner shall provide all available information to the Consultant, as to the Owner's requirements for each construction contract. The Owner shall also provide to the Consultant, all known information pertinent to the Project site, including previous reports and other data relative to design, such as "as-built" drawings or physical conditions now existing at the Project site. In performing its services, the Consultant will be entitled to rely upon the accuracy of the Owner provided information.

**2.5** The Owner hereby designates the City Engineer of the City of El Paso as the Owner's representative with respect to the professional services to be provided by the Consultant pursuant to this Agreement. The City Engineer shall have complete authority to transmit instructions, receive information, interpret and define Owner's policies, and decisions with respect to materials, equipment, elements, and systems pertinent to the work covered by this Agreement. City Engineer will render written decisions within a five working days time period.

### **ARTICLE III. CONSULTANT FEES AND PROJECT BUDGET**

**3.1 PAYMENT TO CONSULTANT.** The Owner shall pay to the Consultant an amount not to exceed **ONE MILLION NINE HUNDRED FIFTY THOUSAND AND 00/100 DOLLARS (\$1,950,000.00)** for all basic services and reimbursables performed pursuant to this Agreement. The Consultant's fee proposal for the performance of all Basic Services and reimbursables is attached hereto as **Attachment "B"**. Payments to the Consultant shall be made pursuant to the schedule enumerated within **Attachment "D"**.

**3.2 CONSULTANT'S SERVICES.** The Basic Services to be provided by the Consultant for this Agreement are attached hereto as **Attachment "C"**. If authorized by the City Engineer, prior to the performance of such services, the Consultant may perform such Additional Services as also enumerated within **Attachment "C"** in an amount not to exceed \$50,000.00. Additional Services exceeding \$50,000.00 must have prior approval by City Council through written amendment to this Agreement. Owner shall make payment for such Basic and Additional Services at the rates established by Consultant within **Attachment "B"**.

**3.3 CONSULTANT'S INVOICES.** The Consultant shall bill the Owner not more often than monthly, through written invoices pursuant to the schedule established in **Attachment "D"**. Invoices shall indicate the costs for outside consultants with copies of their invoices as back-up materials as well as other authorized direct costs for hourly rate contracts. All invoices shall be made in writing. Within ninety days of substantial completion of construction, all outstanding invoices for all work completed to date by the Consultant shall be submitted to the Owner.

**3.3.1** Each invoice shall contain a brief summary indicating, at a minimum, the total Project budget, the total amount authorized for the Consultant, the current invoiced amount and the amount billed to date. In addition to the Summary, each invoice shall provide a Progress Report. The Progress Report shall describe, at a minimum, the progress of the Project to date also indicating the percentage of completion of each phase. The established schedule for completion shall not be revised except by written amendment to this Agreement, executed by both parties.

**3.3.2** The Owner agrees to pay invoices for all services performed as soon as reasonably possible but not later than thirty (30) days from receipt. Upon dispute, however, the Owner may, upon notice to the Consultant, withhold payment to the Consultant for the amount in dispute only, until such time as the exact amount of the disputed amount due the Consultant is determined. The total amount paid to Consultant shall not exceed Consultant's fee proposal, except by written amendment to this Agreement, executed by both parties.

**3.4 PROJECT CONSTRUCTION BUDGET.** The Consultant acknowledges that the construction budget for this Project allocates **NINE MILLION AND 00/100 DOLLARS (\$9,000,000.00)** for the award of a construction contract base bid, which is to include all features essential to the operation of the Project for its intended use as described in the Scope of Services and Project budget in **Attachment "A"**. The Consultant does hereby agree to design the Project such that the Consultant's final agreed cost opinions for the construction of the Project, including all features essential to its intended use, is within the above budgeted amount for the base bid. If the Consultant's cost opinions exceed the Project Budget at any time, the Consultant shall make recommendations to the Owner to adjust the Project's size or quality and the Owner shall cooperate with the Consultant to adjust the scope of the Project. If all responsible bids exceed the City approved Consultant's final cost opinions by more than **ten percent (10%)**, the Consultant agrees, at the direction of the Owner, to redesign the Project without additional charge to the Owner in order to bring the Project within the budgetary limitations.

**3.5 COSTS NOT ENUMERATED.** Except as specifically set forth in this Agreement and its attachments, all costs related to the completion of the services requested herein shall be borne by the Consultant and not passed on to the Owner or otherwise paid by the Owner, unless a written amendment to this Agreement is executed by both parties allowing for additional costs.

#### **ARTICLE IV. PERIOD OF SERVICE AND TERMINATION**

**4.1 PERIOD OF SERVICE.** The services called for by each phase shall begin upon the issuance of a Notice to Proceed from the City Engineer. The Consultant shall complete the requested services in accordance with the timelines and schedules outlined in **Attachments "C" and "D"**. **FOR REQUIREMENTS CONTRACTS ONLY:** The term of this Agreement shall be for a period not to exceed (N/A) **consecutive calendar days**, except as specifically noted herein.

**4.2 SUSPENSION.** Barring an early termination as provided herein, this Agreement shall remain in force: a) For a period which may reasonably be required for the design, award of construction contracts, and construction of the improvements included in all construction contracts, including extra work and required extensions thereto; or b) Unless construction has not begun within a period of **twelve (12) months** after the completion of the services called for in that phase of work last authorized. However, should the Consultant's services be suspended for a period longer than six months, the City and Consultant may renegotiate remaining fees due to changes in salaries or increased costs that may occur during the suspension period. The Owner may determine that this Agreement will remain in full force past the twelve-month period noted above. Such a determination will be based upon the individual circumstances of this Project and this Agreement.

**4.3 TERMINATION.** This Agreement may be terminated as provided herein.

**4.3.1 TERMINATION BY OWNER.** It is mutually understood and agreed by the Consultant and Owner that the Owner may terminate this Agreement, in whole or in part for the convenience of the Owner, upon **fourteen (14) consecutive calendar days** written notice. It is also understood and agreed that upon such notice of termination, the Consultant shall cease the performance of services under this Agreement. Upon such termination, the Consultant shall provide one final invoice for all services completed and reimbursable expenses incurred prior to the Owner's notice of termination. Owner shall compensate Consultant in accordance with this Agreement; however, the Owner may withhold any payment to the Consultant that is held to be in dispute for the purpose of setoff until such time as the exact amount due the Consultant from the Owner is determined. Nothing contained herein, or elsewhere in this Agreement shall require the Owner to pay for any services that are not in compliance with the terms of this Agreement and its attachments.

**4.3.2 TERMINATION BY EITHER PARTY.** It is further understood and agreed by the Consultant and Owner that either party may terminate this Agreement in whole or in part. Such a termination may be made for failure of one party to substantially fulfill its contractual obligations, pursuant to this Agreement, and through no fault of the other party. No such termination shall be made, unless the other party being terminated is granted: a) written notice of intent to terminate enumerating the failures for which the termination is being sought; b) a minimum of **seven (7) consecutive calendar days** to cure such failures; and c) an opportunity for consultation with the terminating party prior to such termination. However, the Owner retains the right to immediately terminate this Agreement for default if the Consultant violates any local, state, or federal laws, rules or regulations that relate to the performance of this Agreement. In the event of termination by the Owner pursuant to this subsection, the Owner may withhold payments to the Consultant for the purpose of setoff until such time as the exact amount due the Consultant from the Owner is determined.

**4.3.3 TERMINATION SHALL NOT BE CONSTRUED AS RELEASE.** Termination by either party shall not be construed as a release of any claims that the terminating party may be lawfully entitled to assert against the terminated party. Further,

the terminated party shall not be relieved of any liability for damages sustained by the terminating party by virtue of any breach of this Agreement.

## **ARTICLE V. INSURANCE AND INDEMNIFICATION**

**5.1 INSURANCE.** The Consultant shall have **seven (7) calendar days** from date of award to obtain sufficient insurance as required herein. Consultant shall not commence work under this Agreement until the Consultant has obtained the required insurance and such insurance has been approved by the Owner. The Consultant shall maintain the required insurance throughout the term of this Agreement. Failure to maintain said insurance shall be considered a material breach of this Agreement.

**5.1.1 WORKERS' COMPENSATION INSURANCE.** The Consultant shall procure and shall maintain during the life of this Agreement, Workers' Compensation Insurance as required by applicable Texas law for all of the Consultant's employees to be engaged in work under this Agreement. The Consultant shall provide the following endorsement:

"The policy is endorsed to provide that insurer waives any right of subrogation it may acquire against the Owner, its partners, agents and employees by reason of any payment made on or account of injury, including death resulting therefrom, sustained by any employee of the insured."

**5.1.2 COMMERCIAL LIABILITY, PROPERTY DAMAGE LIABILITY AND AUTOMOBILE LIABILITY INSURANCE.** The Consultant shall procure and shall maintain during the life of this Agreement such Commercial General Liability, Property Damage Liability and Automobile Liability Insurance as shall protect the Consultant and the Consultant's employees performing work covered by this Agreement from claims for damages for personal injury, including accidental death, as well as from claims for property damages, which may arise from operations under this contract, whether such operations be by the Consultant or by anyone directly or indirectly employed by the Consultant. The minimum limits of liability and coverages shall be as follows:

- a) **COMMERCIAL GENERAL LIABILITY**
  - Personal Injury or Death**
    - \$500,000.00 for one person or occurrence
    - \$1,000,000.00 for two or more persons or occurrences
  - Property Damage**
    - \$500,000.00 per occurrence
  - General Aggregate**
    - \$1,000,000.00
- b) **AUTOMOBILE LIABILITY**
  - Combined Single Limit**
    - \$1,000,000.00 per accident



**5.1.3 PROFESSIONAL LIABILITY INSURANCE.** The Consultant shall procure and shall maintain, at the Consultant's sole expense, Professional Liability Insurance for the benefit of the Owner to cover the errors and omissions of the Consultant, its principals or officers, agents or employees in the performance of this Agreement with a limit of ONE MILLION AND 00/100 DOLLARS (\$1,000,000.00) on a claims made basis.

**5.1.4 OWNER AS ADDITIONAL INSURED.** The Owner shall be named as an Additional Insured on all of the Consultant's Insurance Policies, with the exception of Workers' Compensation and Professional Liability Insurance required by this Contract.

**5.1.5 PROOF OF INSURANCE.** The Consultant shall furnish the City Engineer with certificates showing the type of insurance coverages, limits on each insurance policy, class of operations covered under each insurance policy, effective dates and expiration dates of policies, insurance companies providing the insurance coverages, name of agent/broker and include confirmation of any endorsement(s) required in this agreement.

**5.1.6 GENERAL INSURANCE PROVISIONS.** All certificates required herein shall be attached hereto and incorporated for all purposes as **Attachment "E"**. All certificates shall also include the name of the project on the corresponding insurance certificate. Further, each certificate shall contain the following statement:

"The insurance covered by this certificate will not be canceled, and there will be no change in coverage or deductibles, except after thirty (30) consecutive calendar days written notice of intent to cancel or change said insurance has been provided to the City of El Paso.

**5.2 INDEMNIFICATION.** To the fullest extent permitted by law, Consultant shall indemnify and hold harmless Owner, and Owner's officers, directors, partners, agents consultants, and employees from and against any claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals, and all court, arbitration, or other dispute resolution costs) arising out of or relating to the Project, provided that any such claim, cost, loss, or damage is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the Work itself), but only to the extent caused by any negligent act or omission of Consultant or Consultant's officers, directors, partners, agents, consultants or employees. This indemnification provision is subject to and limited by the provisions agreed to by Owner and Consultant, as noted below. The Consultant shall not be responsible for any acts of any of the City's Independent Project Managers.

To the extent allowed by state law, the Owner will be responsible for its own actions.

**5.2.1 CONSULTANT'S LIABILITY LIMITED TO AMOUNT OF INSURANCE REQUIREMENTS.** Consultant shall procure and maintain insurance as required by and set forth in the terms and conditions of this Agreement. Notwithstanding any other provision of this Agreement, and to the fullest extent permitted by law, the total liability,

in the aggregate, of Consultant and Consultant's officers, directors, partners, employees, agents, and consultants (hereafter referred to collectively as "Consultant"), to Owner and anyone claiming by through, or under Owner for any and all claims, losses, costs, or damages, whatsoever arising out of, resulting from or in any way related to the Project or the Agreement from any cause or causes, including but not limited to the negligence, professional errors or omissions, strict liability or breach of contract, or warranty express or implied of Consultant (hereafter "Owner's Claims"), shall not exceed the total insurance proceeds paid on behalf of or to Consultant by Consultant's insurers in settlement or satisfaction of Owner's Claims under the terms and conditions of Consultant's insurance policies applicable thereto (excluding fees, costs and expenses of investigation, claims adjustment, defense, and appeal). If no such insurance coverage is provided with respect to Owner's Claims, then the total liability, in the aggregate, of Consultant to Owner and anyone claiming by, through, or under Owner for any and all such uninsured Owner's claims shall not exceed \$250,000.00 per person or \$500,000.00 per incident with property damage liability limited to \$100,000.00 per incident.

## **ARTICLE VI. FEDERAL PROVISIONS**

### **6.1 COMPLIANCE WITH APPLICABLE LAWS - FEDERAL FUNDING REQUIREMENTS**

Consultant, at Consultant's sole expense, agrees that it will operate and perform its responsibilities and covenants under this Agreement in accordance with applicable laws, rules, orders, ordinances, directions, regulations and requirements of federal, state, county and municipal authorities, now in force or which may hereafter be in force, including, but not limited to, those which shall impose any duty upon the Owner or Consultant with respect to the use of federal funds and nondiscrimination in the administration of contracts which are funded, in whole or in part, with federal funds.

Specifically, and not in limitation of the foregoing, Consultant agrees that to the extent required by any agreement between the Owner and any Federal agency, the laws of the federal government of the United States of America and the rules and regulations of any regulatory body or officer having jurisdiction over this Project, including but not limited to:

--The Federal Transit Administration (FTA) through a Grant Agreement or Cooperative Agreement with the Owner, or supported by FTA through a Loan, Loan Guarantee, or Line of Credit with the Owner.

--The Department of Housing and Urban Development through a Grant Agreement or Cooperative Agreement with the Owner.

--The Federal Aviation Administration through a Grant Agreement or Cooperative Agreement with the Owner.

Copies of grant assurances will be made available to Consultant. However, provided

copies shall in no way be a limitation on the Consultant's obligation to comply with any Federal agency, the laws of the federal government of the United States of America and the rules and regulations of any regulatory body or officer having jurisdiction over this Project.

**6.1.1 CONTRACT ASSURANCE.** The Consultant or subconsultant shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the consultant to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate.

**6.1.2 DBE GOOD FAITH EFFORTS.** The requirements of 49 CFR Part 26, regulations of the U.S. DOT, applies to this contract. It is the policy of the Owner to practice nondiscrimination based on race, color, sex or national origin in the award of performance of this contract. All firms qualifying under this solicitation are encouraged to submit proposals. Award of this contract will be conditioned upon satisfying the requirements of this proposal. These requirements apply to all offerors, including those who qualify as a DBE. A DBE contract goal of 0% has been established for this contract. The offeror shall make good faith efforts, as defined in Appendix A, 40 CFR Part 26, to meet the contract goal for DBE participation in the performance of this contract.

The offeror will be required to submit the following information: (1) the names and addresses of DBE firms that will participate in the contract; (2) a description of the work that each DBE firm will perform; (3) the dollar amount of the participation of each DBE firm participating; (4) written documentation of the offeror's commitment to use a DBE subconsultant whose participation it submits to meet the contract goal; (5) written confirmation from the DBE that it is participating in the contract as provided in the commitment made under (4); and (6) if the contract goal is not met, evidence of good faith efforts. The offeror shall submit the information with its proposal as a condition of responsiveness.

DBE participation in this contract may be in the form of a prime contract, subcontract, joint venture, or other arrangement that qualifies under 49 CFR Section 26.55 or 26.53(g), both of which will be submitted on a Letter of Intent to the Owner.

## **6.2 TERMINATION FOR CANCELLATION OF GRANT.**

Should this Agreement be terminated as a result of cancellation of federal funds covering this Project, the Owner shall promptly notify the Consultant of the cancellation by certified mail-return receipt requested, whereupon the Consultant shall immediately, on receipt of the letter, cease and desist from performing any other work or services hereunder. In such an event, the Consultant will be paid for professional services performed to such date, upon furnishing the Owner a progress report and an invoice to such date, and upon acceptance of the work by the Owner.

## ARTICLE VII. GENERAL PROVISIONS

**7.1 CONTRACT TIME.** Consultant understands and agrees to provide all professional services and deliverables requested herein, as expeditiously as is consistent with professional skill and care, and to use its best efforts to complete all phases of this Agreement within the time schedules indicated within **Attachment "D"**. It is acknowledged that the Consultant does not have control over all aspects of the design and construction process and cannot warrant that it will complete all services and deliverables by a certain date. The Consultant shall timely notify the City Engineer of any delay beyond its control and the City Engineer shall extend the time schedule in the event of delays which the City Engineer reasonably determines are beyond the control of the Consultant. The Consultant will perform these services with reasonable diligence and expediency consistent with sound professional practices and consistent with the schedule provided in **Attachment "D"**.

**7.2 OPINION OF PROBABLE COST.** As a design professional practicing in El Paso the Consultant is expected to be familiar with the cost of construction, labor, and materials in the El Paso area and of bidding and market trends. The cost opinions of construction cost provided by the Consultant, as required herein, are to be made in light of such familiarity and are expected to be within **ten percent (10%)** of the bid for the base bid item expected from the lowest responsible bidder.

The Consultant's final cost opinions for the construction of the Project, shall take into account labor costs which shall be based on the current City of El Paso prevailing wage rates as adopted by the City Council. In the event that the Project is funded with federal funds, the higher of the City of El Paso prevailing wage rates or the Davis-Bacon wage rates shall be utilized by the Consultant in compiling a final cost opinions for the Project.

If the Consultant's most recent cost opinion for any construction contract is in excess of the Project construction budget, the Owner shall give written approval of an increase in the limit, or shall cooperate in revising the Project's scope or quality, or both, to reduce the cost as required. Such revisions shall be made, and Drawings and Specifications modified by the Consultant without further compensation.

As noted herein, if all responsible bids exceed the final cost opinion by more than **ten percent (10%)**, the Consultant agrees, at the direction of the Owner, to redesign the Project without additional charge to the Owner in order to bring the Project within the budgetary limitations.

**7.3 CONSULTANT'S QUALITY OF WORK.** The Owner's review of any documents prepared by the Consultant is only general in nature and its option to approve and accept the work in no way relieves the Consultant of responsibility for any specific deficiencies in its professional service. The Consultant's services shall be performed as expeditiously as is consistent with professional skill and care and the orderly progress of the Project and in accordance with the time periods established in **Attachment "D"** and which shall be adjusted, if necessary, as the project proceeds. This schedule shall include allowances for periods of time required for the Owner's review, for the performance of the Owner's consultants, and for

approval of submissions by authorities having jurisdiction over the project. The identified time limits shall not, except for reasonable cause, be exceeded by the Consultant or Owner. Services provided by the Consultant under this Agreement shall be performed in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar circumstances.

**7.4 COPYRIGHT AND REPRODUCTION RIGHTS.** Upon payment of amounts due, the Drawings, Specifications, concepts and design, and other documents prepared by the Consultant for this Project including, without limitation, those in electronic form (sometimes referred to as the "Instruments of Service") are the property of the Owner, who shall be vested with all common law and statutory rights. The Owner shall have the right to the use of the Drawings, Specifications and other documents for the maintenance, repair, remodeling and renovation of the Project; provided however the Consultant shall have no liability for any use of one or more of the Instruments of Service by the Owner for maintenance, repair, remodeling and renovation of the project. The Owner shall have the consent of the Consultant, provided, however, the Consultant shall have no liability or responsibility for such use of the Drawings, Specifications, concepts and design, and other documents. The rights granted to the Owner herein for the use of the Drawings, Specifications and other documents for additional projects shall not grant the Owner any right to rely upon the Consultant's seal on the Drawings and Specifications or to hold the Consultant responsible for any subsequent use of the Drawings, Specifications and documents. The Consultant shall provide the Owner with copies of the Instruments of Service in both electronic form and in hard copy.

**7.5 AUDITING RECORDS FOR THE SPECIFIC PROJECT.** Consultant's records subject to audit shall include but not be limited to records which, in the Owner's discretion, have a bearing on matters of interest to the Owner in connection with the Consultant's work on this Project for the Owner and shall be open to inspection and subject to audit and/or reproduction by Owner's agent or its authorized representative to the extent necessary to adequately permit evaluation and verification of (a) Consultant's compliance with contract requirements, and (b) compliance with provisions for computing Direct Personnel Expense with reimbursables, if applicable.

Such records subject to audit shall also include those records necessary to evaluate and verify direct and indirect costs, (including overhead allocations) as they may apply to costs associated with this Agreement. In those situations where Consultant's records have been generated from computerized data, Consultant agrees to provide Owner's representatives with extracts of data files in computer readable format on data disks or suitable alternative computer data exchange format.

The Owner or its designee shall be entitled, at its expense, to audit all of the Consultant's records related to this Project, and shall be allowed to interview any of the Consultant's employees, pursuant to the provisions of this section throughout the term of this contract and for a period of **three (3) years** after final payment or longer if required by law. Such audits may require inspection and photo copying of selected documents from time to time at reasonable times and places.

**7.6 SUCCESSORS AND ASSIGNS.** This Agreement shall be binding on the Owner and the Consultant, their successors and assigns. Neither party may assign, sublet, or transfer its interest in this Agreement without the written consent of the other.

**7.7 VENUE.** For the purpose of determining place of Agreement and the law governing the same, this Agreement is entered into in the City and County of El Paso, the State of Texas, and shall be governed by the laws of the State of Texas. Venue shall be in the County of El Paso, Texas.

**7.8 GOVERNING LAW.** The Consultant shall comply with applicable Federal, State and local laws and ordinances applicable to the work contemplated herein.

**7.9 CAPTIONS.** The captions of this Agreement are for information purposes only, and shall in no way affect the substantive terms or conditions of this Agreement.

**7.10 SEVERABILITY.** Should any section, paragraph or other provision of this Agreement be found invalid, such invalidity shall not affect the remaining provisions of this Agreement.

**7.11 NOTICES.** Any notice, demand, request, consent or approval that either party may or is required to provide to the other shall be in writing and either personally delivered or sent via certified mail, return receipt, to the following addresses:

To the Owner:                      The City of El Paso  
   Attn: City Manager  
   2 Civic Center Plaza  
   El Paso, Texas 79901

With a Copy to:                      The City of El Paso  
   Attn: City Engineer  
   2 Civic Center Plaza  
   El Paso, Texas 79901

To the Consultant:                      Lockwood, Andrews & Newman, Inc.  
   Attn: Patrick Jolly, P.E., Vice President  
   2925 Briarpark Drive, Suite 400  
   Houston, TX 77042

Changes may be made to the names and addresses noted herein through timely, written notice to the other party.

**7.12 CONFLICTING PROVISIONS.** Any provision contained in any Attachments to this Agreement, which may be in conflict or inconsistent with any of the provisions in this Agreement shall be void to the extent of such conflict or inconsistency.

**7.13 ENTIRE AGREEMENT.** This Agreement, including attachments, constitutes and expresses the entire agreement between the parties and supersedes all prior negotiations,

representations or agreements, whether written or oral. This Agreement shall not be amended or modified, except by written amendment, executed by both parties.

**WITNESS THE FOLLOWING SIGNATURES AND/OR SEALS:**

**CITY OF EL PASO:**

\_\_\_\_\_  
Joyce Wilson, City Manager

**CONSULTANT:**

Lockwood, Andrews & Newman, Inc.

By: \_\_\_\_\_

Title: VICE PRESIDENT

**APPROVED AS TO FORM:**

\_\_\_\_\_  
Cynthia Osborn  
Assistant City Attorney

**APPROVED AS TO CONTENT:**

for \_\_\_\_\_  
R. Alan Shubert, P.E.  
City Engineer

(Acknowledgements on following page)

CITY CLERK DEPT.  
2011 MAY -2 PM 12:27

ACKNOWLEDGEMENTS

THE STATE OF TEXAS §  
COUNTY OF EL PASO §

This instrument was acknowledged before me on this \_\_\_\_\_ day of \_\_\_\_\_, 2011,  
by Joyce A. Wilson, as City Manager of the City of El Paso, Texas.

\_\_\_\_\_  
Notary Public, State of Texas

My commission expires:

\_\_\_\_\_  
THE STATE OF TEXAS §  
HARRIS COUNTY §

This instrument was acknowledged before me on this 29<sup>th</sup> day of April, 2011,  
by Patrick Jolly, P.E., as Vice President of Lockwood, Andrews & Newman, Inc.



Deborah Stearns Murphy  
Notary Public, State of Texas

My commission expires:

October 26, 2013

CITY CLERK DEPT.  
2011 MAY -2 PM 12:27



## **ATTACHEMENT A PROJECT SCOPE**

**TITLE:** Alameda Corridor Bus Rapid Transit (BRT)

**LOCATION:** Alameda Corridor from Downtown Transit Center to Mission Valley Transit Center

### **GENERAL DESCRIPTION:**

The project consists of development of the City of El Paso Alameda Bus Rapid Transit (BRT) Corridor from the Downtown Transit Center (DTC) to the Mission Valley Transit Terminal (MVT) in El Paso, Texas.

The project shall address the following project elements, which include:

Development of the Alameda BRT Corridor originating at the DTC, connecting to the Five Points Transit Terminal, to the Medical Center of the Americas development and ultimately to the Mission Valley Transit Terminal on Alameda and Zaragoza.

### **OBJECTIVE:**

The purpose of this project is to provide a uniform and efficient approach to enhance the City's Mass Transit System. The project is the genesis of the City's transportation model for the community and is to serve as the benchmark for future corridors to grow from.

For the purposes of the definition of work in this scope, the information below specifies the tasks covered in the contract. When a task within the "scope" section conflicts with the any other Attachment section, the "Scope" elements will control and form the complete set of tasks to the exclusion of all others.

### **SCOPE:**

#### **Report Phase**

The actions of this phase as described in "Attachment C" will be compiled and completed as a function of developing the "Preliminary Design Phase" below. An Alternatives Analysis has already been performed, and is not part of this scope.

#### **Preliminary Design Phase**

##### **1.1 Project Management**

###### **General**

The consultant shall be responsible for the management of the design effort described in this scope of service. In addition to specific responsibilities described in this section, the Consultant shall attend the meetings contained herein at the direction of City of El Paso and participate as the technical expert on this project.

###### **1.1.01 Cost Control**

The Consultant shall prepare and submit a monthly invoice, including all back-up documents, and a Cost Report in the format and level of detail as specified by City of El Paso. The Cost Report shall include cost data regarding: original budget, current budget (original + approved modifications) actual cost for the period, actual cost to date, earned value, estimate to complete, estimated cost at completion, and the variance between current budget and estimate at completion.

The Consultant shall submit each Monthly Invoice and Cost Report electronically (include a hardcopy of invoice) with the monthly Schedule Update

#### **1.1.02 Schedule Control**

The Consultant shall prepare and maintain a schedule that ensures the timely completion of all major milestones and activities.

##### **1.1.02.1 Baseline Schedule**

The Consultant shall prepare and submit a Baseline Schedule that clearly shows the timely completion of all major milestones and activities. The Baseline Schedule shall be submitted to City of El Paso within 14 calendar days after NTP is issued.

##### **1.1.02.2 Monthly Schedule Updates**

A written monthly report that addresses any schedule issues and proposed recovery actions required to correct them shall be provided.

#### **1.1.03 Monthly Project Review**

Consultant shall attend up to (6) monthly project meetings maximum, for general project discussion and information dissemination.

#### **1.1.04 Interagency/Consultant Coordination**

The consultant shall provide support to City of El Paso related to Interagency/Consultant coordination and shall coordinate directly with these groups with guidance from the City of El Paso. Preparation of Memoranda of Understanding, Inter-local agreements, or utility agreements are not part of this scope.

#### **1.1.05 Quality Assurance/Quality Control Plan/Program**

Consultant will develop QA Plan Guidelines. The consultant shall review all comments on deliverables and provide City of El Paso with record of resolution of all comments.

#### **1.1.06 Design Reviews**

In addition to continuous monitoring throughout the project, progress and products may be reviewed by the City of El Paso and others at comprehensive design reviews sponsored by the City of El Paso. The Consultant shall submit a schedule for establishing milestone dates for approval through City of El Paso. Reviews will focus on constructability, maintainability, cost effectiveness, life cycle cost, user safety, aesthetics, user convenience and community acceptance. A comprehensive review is expected at the mid-point and completion of Preliminary engineering plans, specifications and cost estimates. The review shall include, but not be limited to, assumptions, standards, codes, plans, design concepts, and cost estimates. The

Consultant shall be the key participant in Design Review and respond to review comments. (2 meetings)

**1.1.07 Change Control**

The Consultant shall provide City of El Paso with notification of any proposed change to the baseline design from any source and provide estimates of the design cost, construction cost and project schedule impact for each request. Variations outside of approved scope elements will be included in a supplemental to this scope.

**1.1.08 Document/CADD Control**

City of El Paso will develop the Document Control Procedures (DCP) for control of all project documents. This shall include correspondence, specifications, and design plans.

City of El Paso has also developed Computer Aided Design & Drafting (CADD) Standards Manual for control of all Project drawings. Control of all project drawings that define the baseline configuration is essential during the project. This includes: the issuance of drawing numbers, drawing titles, the storage of approved drawings, and the controlled distribution of design reviews. The Consultant shall control project documentation involving subconsultant.

**1.1.09 Design Analysis:**

The designer shall perform design analysis to ensure compliance with the prevailing standard of care for engineering work. Furthermore, all design analysis must comply with all applicable City, County, State, and Federal laws and regulations.

**1.1.10 Value Engineering**

Conducting, or participating in a Value Engineering session/workshop, either formally or informally, by the Consultant is not part of this scope.

**1.2 Investigation**

**1.2.01 Branding – System**

The designer will coordinate with the Branding Consultant chosen by the City of El Paso for the Alameda BRT corridor.

**1.2.02 Soils Investigation:**

The designer shall provide a subsurface soil investigation study for the project and should be submitted to the Owner for a review. Log boring information can be shown on construction documents with appropriate notes and disclaimers that will minimize change orders.

1. Consultant will conduct geotechnical investigations at each station site to a maximum boring depth of ten (10) feet for a Dynamic Cone Penetrometer test.

2. A maximum of twenty-nine (29) soil exploration borings to a maximum depth of fifteen (15) feet or reasonable auger refusal will be performed. Standard Penetration Tests will be collected at discrete intervals and soil samples will be collected using conventional split-spoon sampling (as required). Soil laboratory tests shall consist of moisture contents, plasticity index tests, sieve analysis and swell tests. All borings shall be backfilled with auger cuttings and patched with concrete and/or "cold-mix" asphaltic-concrete material.

3. A maximum of fourteen (14) bulk subgrade samples shall be collected from selected boring locations for CBR testing.

Minor, temporary traffic control will be performed for the drilling activities, and is limited to signs, cones, and barricades. Lane closures or after-hours/night/weekend drilling operations are not part of this scope.

4. The City shall provide assistance or permissions/permits for to allow for the boring operations.

5. No retaining wall borings or global stability analysis is included in this scope.

6. Pavement design is not included in this scope other than matching existing / TxDOT standard pavement section. Assume existing pavement details will be provided, and existing structure will be utilized.

7. A Geotechnical report shall be provided, and a maximum of two (2) copies are included in this scope of services.

#### **1.2.03 Environmental Issues**

1. Coordination activities with the City's environmental consultant will encompass a maximum of two (2) meetings. Testing, analysis, and specific investigations for contaminated soil are not part of this scope.

2. Environmental permitting, investigations, coordination, and other environmental-related activities (such as noise and vibration analysis, mitigation measures, remediation plans, etc.) are not part of this scope.

#### **1.2.04 Surveys**

The designer shall provide topographic, horizontal surveys and denote apparent ROW lines, limited to in-line station sites only.

1. Consultant shall establish ground control with a minimum of two points at each location.

2. At intersections where in-line station platforms are planned, full topographic survey for the full ROW width will be performed 220' radius from the station, public ROW only, including all legs of intersections. This will include a maximum of twenty-nine (29) sites.

3. Boundary survey of ROW is not part of this scope.

4. Consultant will prepare parcel plats for ROW acquisition for a maximum of 10 parcels.

5. Consultant will evaluate utility provided record drawings. No SUE activities are included in this scope of work.

#### **1.2.05 Sidewalks**

1. A visual corridor survey of sidewalk discontinuities will be performed, and areas near proposed station sites will be noted in a brief summary report. This will include only the areas spanning the proposed station site to the nearest intersection. No detailed plan sheets will be shown for off-station (beyond 220 feet from station centerpoints) sidewalk improvements.

### **1.3 Geometrics Planning**

#### **1.3.01 Traffic -- System**

1. Striping plans for immediate station vicinity will be developed in accordance with TxDOT standards.

2. Existing available traffic data on the corridor will be provided by the City and a base case model will be created utilizing Synchro or VISSIM traffic simulation software and a base traffic model will be created. Scope does not include Consultant collecting traffic data.
3. The base traffic model will be used to develop an operational plan that includes Transit Signal Priority (TSP) for up to two (2) levels of TSP parameters. Meetings with City and TxDOT traffic staff will occur to solicit input and provide information. A maximum of two (2) meetings are anticipated.
4. New signals, beacons and associated traffic signal warrant analyses are not part of this scope. Re-warranting of existing traffic signals is not part of this scope.

#### **1.3.02 Civil – In-Line Station Sites**

1. Prototypical site layout (schematic-level).
2. Preliminary plan layout of each station (29 total).
3. Consultant will note potential ROW encroachment at each platform
4. Identification of roadway modifications at platform locations.
5. Development of a maximum of 3 concepts/exhibits for the evaluation of Alameda Avenue for conversion to a typical urban boulevard roadway section. A brief summation of findings will be developed, and a maximum of 3 meetings on the subject will be provided. Design of the corridor conversion is not included in this scope and will be handled with a supplemental agreement (if desired).
6. The platform height of the inline stations shall be finalized during this stage; any alteration of platform height and associated changes are not part of this contract, and are will be handled as a supplement to this contract.

#### **1.3.03 Civil – Transit Center Site (5 Points)**

1. Modification of the existing platform is not included in this scope of work.
2. Transit center circulation plan for the BRT vehicles will be developed and presented in schematic form.

#### **1.3.04 Construction Sequencing**

1. Preparation of a construction sequencing plan, in coordination with the City, to identify the phases and sequence of construction.
2. Attend a maximum of one (1) meeting for development of the plan for this phase.

### **1.4 Utility & Drainage**

#### **1.4.01 Drainage – In-Line Station Sites**

1. Preliminary plan layout of each station (29 total), with drainage flow directions noted.
2. Identification of existing drainage system impacts due to conflicts with station platforms will be noted.

#### **1.4.02 Utility Services**

No utility design services are included in this scope.

#### **1.4.03 Utility Coordination**

1. Consultant will evaluate/review record drawings produced by the utility companies. Identify utility companies in the project area, send project notification letters, and initiate contact. Coordinate with utility companies and acquire information on their existing facilities located within the project corridor. Prepare existing utility layout plans utilizing the topographic survey as base map and supplement the survey with other information provided by the utility companies.
2. Overlay proposed project improvements with existing utility layouts and determine potential utility conflicts. A potential utility conflict list will be created and provided to each utility company.
3. A maximum of six (6) utility meetings will be attended by consultant.
4. Utility Adjustment Design (Third Party) Coordination: Utilities determined to be in conflict with the project will be designed and adjusted by each of the utility companies with ownership of those facilities. This scope of work excludes any design associated with utility adjustments. Consultant will request, on behalf of the Owner, the relocation of utilities in conflict with the project and/or the inclusion of the utility relocation work as part of the project construction as described in the Project Scope. Consultant will request utility clearance letters from utilities having facilities in the project area. Utility plans, design, engineering, and SUE are not part of this scope.

## **1.5 Stations Architecture**

### **1.5.01 Station Planning/Architecture – In-Line Station Sites**

1. Prepare one (1) typical station platform layout. Layout will include the preliminary location of furniture, TVM and communication conduits, pedestrian elements such as handrails and bike racks. Locations of landscaping space will be noted.
2. Develop a maximum of three (3) prototypical station concepts for superstructure and canopy for presentation to City of El Paso. This will include material options, and attendance at two (2) meetings for selection of preferred configuration. The selected option will have a modular design. No unique or special designs or configurations are included in this contract. Modeling and community presentations are not part of this scope.
3. Preliminary concepts for "green" design and sustainability will be provided for the prototypical station. As this project will not meet current requirements for LEED certification consideration, no such activities are included in this scope.
4. Shade studies for each location will be included and limited to one (1) per site.
5. Typical station renderings for no more than 3 concepts will be included.

### **1.5.02 Station Planning/Architecture – Transit Center Site**

1. Platform layouts, special modifications, architectural elements, or changes to the station layout, bus bay modifications, finish, or configuration are not part of this scope, and if required, will be additional services.

### **1.5.03 Public Art Coordination**

1. Provide input to selection criteria for the Public Art Committee's RFP for artist(s), which will be limited to the available space, guidelines as to types of elements (from a technical/impact basis), and prohibitions.

2. Serve on the review and selection panel for the artist, if requested by Public Art Coordinator, and coordinate the internal review of artwork at the Conceptual Design level.
3. Consultant, Public Art Coordinator, and the selected artists will collaborate on developing integrated art and architectural concepts as stated in the Public Art Ordinance 16324, sec 1. Purpose.
4. Coordinate with the Public Art Coordinator, attend meetings, and solicit input from the Community on the vision and objectives statements for art.
5. Team project manager and selected artists will collaborate with the Public Art Coordinator to obtain approval of the Art Design from the Public Art Committee.
6. Cost estimates for the art program or art elements are not part of this scope.
7. A maximum of four (4) meetings are included for Public Art Coordination.

## **1.6 Stations MEP & Foundation/Structural**

### **1.6.01 Station Structural**

1. Foundations concepts (spread footing or drilled shaft) will be provided for consideration and evaluation.
2. Structural concepts for the canopy and superstructure will be identified.

### **1.6.02 Station MEP/Communications – In-Line Station Sites**

1. For the prototypical station, preliminary electrical conduit run layouts will be identified.
2. Typical piping for water (hose bibs for wash-down) will be laid-out.
3. A consultation meetings with City of El Paso staff and law enforcement will be required (1 meeting) to identify security infrastructure.
4. Two (2) lighting options will be provided for consideration by the City of El Paso.

### **1.6.03 Station MEP/Communications – Transit Center (Five Point TC only)**

1. MEP/Communications elements within the canopy will be shown as the typical configuration for the in-line stations.
2. City of El Paso to provide existing plans for transit centers.

## **1.7 Landscaping and Irrigation**

### **1.7.01 Landscape – In-Line Station Sites**

1. Conceptual landscaping schemes (maximum of three) will be developed for the station site, showing standard areas for planting and hardscape, for review and consideration.
2. Preliminary identification of applicable drought tolerant, water-wise plantings. City of El Paso to provide approved (City and TxDOT) tree and planting lists.
3. Irrigation requirements will be identified for the prototypical station.

## **1.8 Systems – Concepts**

1. Consultant will develop a preliminary design for the necessary communications link between the TVMs and the central data system
2. Provide preliminary plans and configuration for a secure broadband wireless network system for CCTV video and TVM data. Interconnect to the fiber-optic backbone is not part of this scope.

3. Preliminary layout of variable message signs. These will be the current signs utilized by the City, and this scope does not include evaluation or implementation of other technologies.
4. Preliminary design of a Closed Circuit Television (CCTV) system for platform monitoring. Selection of CCTV equipment is not part of the scope.
5. Vehicle procurement support is not part of this scope.

## **1.9 Public Outreach**

### **Public Involvement**

The consultant shall attend a maximum of six (6) public meetings for an outreach program for the project. Consultant shall prepare presentation materials (powerpoint, renderings, site plans, etc.), and City of El Paso will coordinate, schedule and present the materials at meetings. Consultant shall answer any technical questions regarding project and design documents.

#### **1.9.01 – Public Meeting Participation**

1. Consultant will note comments made by the public, and draft a response to the comments and provide to the City. The City will issue any comment responses.
2. Consultant will provide exhibits of the corridor, prototypical platforms, and identified ROW impacts. Public meeting support for translation services, court reporting, and sign language services are not included in this scope.

#### **1.9.02 – Public Meeting Arrangement**

1. City of El Paso will provide public notices, advertising, and secure the sites for the public meetings.

## **Deliverables:**

### **Preliminary Design:**

Upon the completion preliminary design phase, the designer shall submit ten (10) copies of the preliminary design documents and cost estimates for approval. If the Owner does not approve the preliminary design documents, the designer shall furnish five (5) copies of the resubmitted design documents. The consultant shall also submit electronic files of the deliverables that includes CADD and pdf versions. During this phase the consultant shall conduct, at a minimum, monthly progress meetings. Drawings will be on 11"x17" paper.

### **Reproduction**

The City will provide a Purchase Order for the reproduction of all submittals mentioned on this scope. The designer shall be responsible to coordinate all printing for the different phases and for code review requirements. For bidding consultant shall be responsible for coordinating the printing of the El Paso Water Utilities improvements or any other affected utility drawings and include them in construction drawing bidding sets.

## **2.0 Pre-Final Design Phase**

### **2.1 Project Management**

#### **2.1.01 Cost Control**

The Consultant shall prepare and submit a monthly invoice, including all back-up documents, and a Cost Report in the format and level of detail as specified by City of



El Paso. The Cost Report shall include cost data regarding: original budget, current budget (original + approved modifications) actual cost for the period, actual cost to date, earned value, estimate to complete, estimated cost at completion, and the variance between current budget and estimate at completion.

The Consultant shall submit each Monthly Invoice and Cost Report electronically (include a hardcopy of invoice) with the monthly Schedule Update

**2.1.02 Schedule Control**

The Consultant shall prepare and maintain a schedule that ensures the timely completion of all major milestones and activities. Primavera Project (P6) shall be used as the project scheduling software.

**2.1.02.1 Baseline Schedule**

The Consultant shall prepare and submit, if requested, a re-cast Baseline Schedule, based on any adjustments in the program resulting from the Preliminary Phase.

**2.1.02.2 Monthly Schedule Updates**

No monthly update shall be provided during this phase.

**2.1.03 Monthly Project Review**

Consultant shall attend up to three (3) monthly project meetings maximum, for general project discussion and information dissemination.

**2.1.04 Interagency/Consultant Coordination**

The consultant shall provide support to City of El Paso related to Interagency/Consultant coordination and shall coordinate directly with these groups with guidance from the City of El Paso. Preparation of Memoranda of Understanding, Inter-local agreements, or utility agreements are not part of this scope.

**2.1.05 Quality Assurance/Quality Control Plan/Comment Resolution**

1. Consultant will perform internal QA/QC through review by qualified personnel.
2. Consultant will review, respond to, and incorporate (if appropriate) comments received from previous phase of work. A record of comment resolutions will be provided to the City.

**2.1.06 Design Reviews**

In addition to continuous monitoring throughout the project, progress and products may be reviewed by the City of El Paso and others at comprehensive design reviews sponsored by the City of El Paso. The Consultant shall submit a schedule for establishing milestone dates for approval through City of El Paso. Reviews will focus on constructability, maintainability, cost effectiveness, life cycle cost, user safety, aesthetics, user convenience and community acceptance. The review shall include, but not be limited to, assumptions, standards, codes, plans, design concepts, and cost estimates. The Consultant shall be the key participant in Design Review and respond to review comments. (1 meeting)

**2.1.07 Change Control**

The Consultant shall provide City of El Paso with notification of any proposed change to the baseline design from any source (including the City of El Paso) and provide

estimates of the design cost, construction cost and project schedule impact for each request. Variations outside of approved scope elements will be considered as additional services and shall be subject to a change order.

**2.1.08 Document/CADD Control**

The Consultant shall control project documentation involving subconsultant.

**2.1.09 Design Analysis:**

The designer shall perform design analysis to ensure compliance with the prevailing standard of care for engineering work. Furthermore, all design analysis must comply with all applicable City, County, State, and Federal laws and regulations.

**2.1.10 Value Engineering**

Conducting, or participating in a Value Engineering session/workshop, either formally or informally, by the Consultant is not part of this scope.

**2.1.11 Cost Estimates**

1. Consultant will provide a Statement of Probable Cost at the conclusion of this phase.
2. A draft set of specifications will be provided with the Pre-Final Design package.

**2.1.12 Construction Sequencing/Schedule**

1. Preparation of a construction sequencing plan, in coordination with the City, to identify the phases and sequence of construction.
2. Preparation of an approximate construction schedule based on the sequencing developed in coordination with the City, to include phase progression and general timeline.
3. Attend a maximum of two (2) meetings for development of the plan for this phase.

**2.2 Utility Coordination**

**Utility Services**

No utility design services are included in this scope.

**2.2.01 Utility Coordination**

1. Review utility-provided information. SUE activities are not included in this scope.
2. The potential utility conflict list will be refined through coordination with each utility company, and adjust the existing utility layouts based on information provided by the utility companies.
3. A maximum of two (2) utility meetings will be attended by consultant (in this phase).
4. Utility plans, design, and engineering are not part of this scope.
5. Traffic control and construction sequencing for utility purposes, including modifications to the design plans, are not part of this scope.

**2.3 Traffic Signals & Lane Configuration**

1. Signing and striping concepts will be developed for immediate station vicinity.
2. Temporary traffic control plans and pedestrian control plans will be shown for each station (29 sites). The City shall provide any information as to known restrictions of construction activity (proximity to sensitive sources, etc.) to Consultant during the Preliminary Design Phase.

3. The base traffic model will be refined, and recommended timing plans will be developed.
4. New signals, beacons and associated warrants are not part of this scope. Re-warranting of existing signals is not part of this scope.

## **2.4 Civil / Drainage Design**

### **2.4.01 Civil – In-Line Station Sites**

1. Prototypical site layout and configuration of civil elements to include platform, curbing, transitions, and ADA compliant pedestrian elements, for level-boarding platform height.
2. Review of prototypical layout for inclusion at a maximum of twenty-nine (29) platform locations. Minor adjustments to flatwork/tie-ins to each site will be included. Retaining walls, specialized site elements are not included.
3. Development and analysis of line-of-site triangles for adjacent access points will be developed for a maximum of 29 sites.
4. Develop preliminary local drainage areas. Perform analysis of existing drainage conditions at each of the proposed station locations to define potential for area flooding, localized flooding, and/or drainage problems, and compute peak runoff for the design of project improvements. The drainage analysis excludes study/design of storm water management systems and/or improvements not associated with the proposed station improvements.
5. Plan layout of each station (29 total), to include stationing, elevations of critical points, with drainage flow directions noted.
6. One (1) section for each station (29) will be developed showing elevations, offsets, widths, and approximate ROW locations.
7. Incorporation of City of El Paso standard detail for bus pads. Modifications will only encompass length and width. Design of the pavement structure is not included in this scope.
8. Development of project layout sheets to identify project and station locations.
9. Roadway modifications at platform locations will be limited to minor widening (with a pavement design provided by the City of El Paso) and curb transitions (1'-2' offset from existing), with associated striping for 29 locations. No roadway reconstruction is included in this scope.
10. A bus pullout detail will be developed as a stand-alone exhibit. Inclusion at individual sites and associated impact mitigation, if desired, is not part of this scope of work.
11. Storm water pollution prevention plans (SW3P) and details will be included for each of the 29 locations, along with a general SW3P narrative and standard details as provided by the City of El Paso, or TxDOT.
12. Evaluate Drainage Impacts: Investigate existing storm outfalls and/or other systems in the vicinity of the project areas, evaluate their capacity and using the peak runoff computed for improvements, determine impact to those systems and/or if they can accept additional runoff from project areas. Make recommendations for feasible connections to existing nearby storm sewer systems. Hydraulic calculations, drainage areas, water harvesting, stormwater detention, and inlet/storm drain design are not included in this scope of work.
13. No plan sheets will be shown for off-station sidewalk improvements; if required, this will be additional services.

### **2.4.02 Civil – Transit Center Site**

1. Any design plans for the modification of existing platforms, demolition plans, pedestrian control, traffic control, etc., are not part of this scope, and will be additional services if required.
2. Design plans for pedestrian access to the BRT platforms to include ADA compliant facilities and way-finding/markings signage are not part of this scope.

## **2.5 Stations Architecture**

### **2.05.01 Station Planning/Architecture – In-Line Station Sites**

1. Identify and present a maximum of three (3) options for each: benches/seating, leaning rails, bike racks, and hand rails, in a maximum of two (2) meetings.
2. Prepare specifications for City of El Paso preferred options for site furniture.
3. Upon selection of preferred station scheme (from those presented in the Preliminary Design Phase), typical elevations and section details will be developed for the identification of superstructure locations of signage, security cameras, lighting, message signs, and communication infrastructure. This will include a maximum of four (4) sheets. The selected concept will be consistent throughout the corridor, and structural or configuration modifications are not part of this scope.
4. Locations for public art will be identified and noted on one (1) plan sheet and will be standard for all stations.
5. As this project will not meet current requirements for LEED certification consideration, no such activities are included in this scope.
6. Modifications of the selected prototypical station to include context sensitive elements will be included for a maximum of three (3) schemes. Based on site constraints each station layout will be configured based on modular canopy concepts.
7. Pedestrian Lighting options: Selected prototypical lighting option for the station area and selected prototypical lighting option for pedestrian approaches (200' each side) will be developed for each station site.

### **2.5.02 Station Planning/Architecture – Transit Center Site**

1. Designs, modifications, architectural elements, or changes to the existing station layout, finish, or configuration are not part of this scope, and will be additional services if necessary.

### **2.5.03 Public Art Coordination**

1. Consultant will identify available opportunities/spaces for public art, along with any restrictions/prohibitions (based on technical criteria).
2. Consultant, Public Art Coordinator, and the selected artists will collaborate on developing integrated art and architectural concepts as design elements progress.
3. Cost estimates for the art program or art elements are not part of this scope.
4. A maximum of four (4) meetings are included in this scope.

### **2.5.04 ADA Compliance and Requirements**

1. During Pre-final design, an ADA consultant certified to perform plan review and inspections for ADA, T.A.S, and Texas Department of Licensing and

Regulation requirements, will review the Pre-Final Design Plans and provide comments to be included in the Final Design.

2. Design waiver preparation, if any, are not part of this scope

## **2.6 Stations MEP & Foundation/Structural**

### **2.6.01 Station Structural**

1. For the prototypical station, structural design and details for the platform will be provided.
2. Foundations options (spread footing or drilled shaft) provided during the Preliminary Engineering Phase and the selected option will be designed to support the station superstructure elements.
3. Structural design for the canopy and superstructure will be performed and details provided for supports, connections, and frame elements.
4. Special structural designs and options due to varying subsurface conditions (soils, utilities), or unique positioning of the site (building proximity, etc.) are not included in this scope.
5. Retaining wall design is not included in this scope.

### **2.6.02 Station MEP/Communications -- In-Line Station Sites**

1. For the prototypical station, electrical conduit run layouts will be provided, and load and wiring requirements will be shown and located to service lighting, TVM, and dynamic signage.
2. Typical communications locations, conduit, and loading will be identified on the plans for the inclusion of other necessary communications equipment. All hardware and specific electronics, including the AVL system, TVMs, CCTVs, message signs, etc., are not included in the design, drawings or specifications of this contract.
3. Upon selection of the lighting options from the Preliminary Phase, plan locations and specifications for the fixtures will be included in the plans.
4. Plans for each platform (29) will be developed to identify and layout the necessary off-platform connections to water, electric, and communication equipment cabinets. This will be a maximum of two (2) sheets per site. No wireless network interfaces with Sun Metro City systems are included in this scope.
5. Off project site improvements or designs for communication systems, pole mounts, wi-fi, and interfaces, or modifications at City or Sun Metro facilities are not included in this contract.
6. Information/plans/details on existing infrastructure (cable/conduit) along the BRT corridor shall be provided by the City.
7. For a prototypical configuration, Consultant will design a data communication link required for the TVM to communicate with the City's central data system. Modifications to City infrastructure are not included in this scope.

### **2.6.03 Station MEP/Communications -- Transit Center (Five Points TC only)**

MEP/Communications elements are not included in this scope, and if necessary, will be additional services.

## **2.7 Landscaping and Irrigation**

1. A prototype landscaping scheme will be developed (from the selected option in the preliminary phase) for the station site, showing standard areas for planting

and hardscape. Hardscape options will be provided for review and approval of the City of El Paso.

2. Design will include drought tolerant, water-wise plantings, which will be specified for uniform application throughout the corridor, based on City-provided approved lists.

3. Custom landscape schemes are not part of this scope; however, up to eighteen (18) minor modifications to the selected scheme is included in this scope.

4. Irrigation plans for the prototypical station layout will be provided using a sub-surface system. Plan layouts and details will be included.

## **2.8 ITS Design**

1. Consultant will design the necessary communications link between the TVMs and the central data system.

2. Provide plans and configuration for a secure broadband wireless network system for CCTV video and TVM data. Interconnect to the fiber-optic backbone is not part of this scope.

3. Layout of variable message signs. These will be the current signs utilized by the City, and this scope does not include evaluation or implementation of other technologies.

4. Design of a Closed Circuit Television (CCTV) system for platform monitoring.

5. Vehicle procurement support is not part of this scope.

## **Deliverables:**

### **Pre-Final Design:**

Upon the completion of pre-final design phase, the designer shall submit ten (10) copies of the pre-final design phase documents. If the Owner does not approve the pre-final design documents, the designer shall submit five (5) copies of the resubmitted pre-final design documents. Additionally, the designer should submit three (3) copies of the Specifications and three (3) copies of the design analysis. The consultant shall also submit electronic files of the deliverables that includes CADD and pdf versions. During this phase the consultant shall conduct, at a minimum, monthly progress meetings. Drawings will be on 11"x17" paper.

### **Specifications:**

All specifications must include type of materials listed in the construction drawings, placement method and quality control and quality assurance testing. The specification shall correlate with unit price format. All specifications must comply with established specification standards and formats. The City of El Paso will provide Consultant with the latest version of the City's standard specifications.

### **Reproduction**

The City will provide a Purchase Order for the reproduction of all submittals mentioned in this scope. The designer shall be responsible to coordinate all printing for the different phases and for code review requirements. For bidding consultant shall be responsible for coordinating the printing of the El Paso Water Utilities improvements or any other affected utility drawings and include them in construction drawing bidding sets.

## **3.0 Final Design Phase**

### **3.1 Project Management**

#### **3.1.01 Cost Control**

The Consultant shall prepare and submit a monthly invoice, including all back-up documents, and a Cost Report in the format and level of detail as specified by City of El Paso. The Cost Report shall include cost data regarding: original budget, current budget (original + approved modifications) actual cost for the period, actual cost to date, earned value, estimate to complete, estimated cost at completion, and the variance between current budget and estimate at completion.

The Consultant shall submit each Monthly Invoice and Cost Report electronically (include a hardcopy of invoice) with the monthly Schedule Update

#### **3.1.02 Schedule Control**

The Consultant shall prepare and maintain a schedule that ensures the timely completion of all major milestones and activities. Primavera Project (P6) shall be used as the project scheduling software.

##### **3.1.02.1 Baseline Schedule**

The Consultant shall prepare and submit, if requested, a re-cast Baseline Schedule, based on any adjustments in the program resulting from the Pre-Final Phase

##### **3.1.02.2 Monthly Schedule Updates**

A written monthly report that addresses any schedule issues and proposed recovery actions required to correct them shall be provided.

#### **3.1.03 Monthly Project Review**

Consultant shall attend up to two (2) monthly project meetings maximum, for general project discussion and information dissemination.

#### **3.1.04 Interagency/Consultant Coordination**

The consultant shall provide support to City of El Paso related to Interagency/Consultant coordination and shall coordinate directly with these groups with guidance from the City of El Paso. Preparation of Memoranda of Understanding, Inter-local agreements, or utility agreements are not part of this scope.

#### **3.1.05 Quality Assurance/Quality Control Plan/Comment Resolution**

1. Consultant will perform internal QA/QC through review by qualified personnel.
2. Consultant will review, respond to, and incorporate (if appropriate) comments received from previous phase of work. A record of comment resolution will be provided to the City.

#### **3.1.06 Design Review**

In addition to continuous monitoring throughout the project, progress and products may be reviewed by the City of El Paso and others at comprehensive design reviews sponsored by the City of El Paso. Reviews will focus on constructability, maintainability, cost effectiveness, life cycle cost, user safety, aesthetics, user convenience and community acceptance. A final review will occur at the completion of final engineering plans, specifications and cost estimates. The review shall

include, but not be limited to, assumptions, standards, codes, plans, design concepts, and cost estimates. The Consultant shall be the key participant in Design Review and respond to review comments. (1 meeting)

**3.1.07 Change Control**

The Consultant shall provide City of El Paso with notification of any proposed change to the baseline design from any source and provide estimates of the design cost, construction cost and project schedule impact for each request. Variations outside of approved scope elements will be included in a supplemental to this scope.

**3.1.08 Document/CADD Control**

The Consultant shall control project documentation involving subconsultant.

**3.1.09 Design Analysis:**

1. The designer shall perform design analysis for each project to ensure compliance with the prevailing standard of care for engineering work. Furthermore, all design analysis must comply with all applicable City, County, State, and Federal laws and regulations.

**3.1.10 Value Engineering**

1. Conducting, or participating in a Value Engineering session/workshop, either formally or informally, by the Consultant is not part of this scope.

**3.1.11 Cost Estimates**

1. Consultant will provide a Statement of Probable Cost at the conclusion of this phase.
2. A set of specifications will be provided with the Final Design package.

**3.1.12 Construction Sequencing**

1. Preparation of a construction sequencing plan, in coordination with the City, to identify the phases and sequence of construction.
2. Attend a maximum of one (1) meeting for development of the plan for this phase.

**3.2 Utility Coordination**

**3.2.01 Utility Services**

No utility design services are included in this scope.

**3.2.02 Utility Coordination**

1. A maximum of two (2) utility meetings will be attended by consultant (in this phase).
2. Consultant will insert any joint-bid utilities into the bid package. Plans, specifications, quantities, and estimates for joint-bid utilities will be the responsibility of others, and are not a part of this scope.
3. Utility plans, design, and engineering are not part of this scope.
4. Traffic control and construction sequencing for utility purposes, including modifications to the design plans, are not part of this scope.

**3.3 Traffic Signals & Lane Configuration**

1. Signing and striping plans developed in the Pre-Final Phase will be finalized.



2. Temporary traffic control plans and pedestrian control plans will be completed for each station site (29 sites).

### **3.4 Civil / Drainage Design**

#### **3.4.01 Civil – In-Line Station Sites**

1. Final prototypical site layout and configuration of civil elements to include platform, curbing, transitions, and ADA compliant pedestrian elements, for level-boarding platform height.
2. Final station site grading plans (with flow directions).
3. Preparation of one (1) TxDOT Design Exception for the 15.5" platform. One "blanket" document is assumed' design exceptions for multiple locations will be handled under a supplement to this contract.
4. Plan layout of each station (29 total), to include stationing, elevations of critical points, with drainage flow directions noted.
5. One (1) section for each station (29) will be developed showing elevations, offsets, widths, and approximate ROW locations.
6. Finalize minor roadway modifications at platform locations (1'-2' offset from existing), with associated striping for 29 locations. Inclusion at individual sites and associated impact mitigation, if desired, is not part of this scope of work.
7. Final storm water pollution prevention plans (SW3P) and details will be included for each of the 29 locations, along with a general SW3P narrative and standard details as provided by the City of El Paso, or TxDOT.
8. Evaluate Drainage Impacts: Investigate existing storm outfalls and/or other systems in the vicinity of the project areas, evaluate their capacity and using the peak runoff computed for improvements, determine impact to those systems and/or if they can accept additional runoff from project areas. Make recommendations for feasible connections to existing nearby storm sewer systems. Hydraulic calculations, external drainage areas, water harvesting, stormwater detention, and inlet/storm drain design are not included in this scope of work.
9. Sidewalk design and details for off-station sidewalk improvements are not included in this scope, and if required, will be an additional service.

#### **3.4.02 Civil – Transit Center Site**

Any design plans for the modification of existing platforms are not part of this scope, and will be additional services.

### **3.5 Stations Architecture**

#### **3.5.01 Station Planning/Architecture – In-Line Station Sites**

1. Incorporate selected benches/seating, leaning rails, bike racks, and hand rails into station site plans, and include necessary details.
2. Prepare specifications for City of El Paso preferred options for site furniture.
3. Finalize one (1) typical station platform layout, to include the location of furniture, TVM and communication conduits, pedestrian elements such as handrails and bike loops. Locations of landscaping space will be noted.
4. Develop final plans for selected superstructure and canopy. This will include materials and finishes. Shade studies, renderings, modeling, and community presentations are not part of this scope.

5. Final typical elevations and section details including the superstructure locations of signage, security cameras, lighting, message signs, and communication infrastructure. This will include a maximum of four (4) sheets. Special branding accommodations and structural or configuration modifications are not part of this scope.
6. Locations for public art will be identified and noted on one (1) plan sheet and will be standard for all stations.
7. As this project will not meet current requirements for LEED certification consideration, no such activities are included in this scope.
8. Finalize station architecture plans developed in Pre-Final Phase.

#### **3.5.02 Station Planning/Architecture – Transit Center Site**

1. Transit center architecture, layouts, or modifications are not part of this scope, and if necessary will be additional services.
2. Special modifications, architectural elements, or changes to the station layout, finish, or configuration are not part of this scope.

#### **3.5.03 ADA Compliance and Requirements**

1. During final design, an ADA consultant certified to perform plan review and inspections for ADA, T.A.S, and Texas Department of Licensing and Regulation requirements, will review the Final Design Plans prior to assembling the bid package.
2. Design waiver preparation, if any, are not part of this scope.

#### **3.5.04 Public Art Coordination and Incorporation**

1. Consultant will insert any necessary sheets for joint-bid public art into the plan set. Cost estimates for the art program or art elements are not part of this scope.
2. Locations of art features or areas reserved for public art will be noted on the architectural plans.

#### **3.6 Stations MEP & Foundation/Structural**

##### **3.6.01 Station Structural**

1. For the prototypical station, structural design and details for the platform will be finalized.
2. Foundations will be designed to support the station superstructure elements.
3. Structural design for the canopy and superstructure will be performed, and details provided for supports, connections, and frame elements.
4. Special structural designs and options due to varying subsurface conditions (soils, utilities), or unique positioning of the site (building proximity, etc.) are not included in this scope.

##### **3.6.02 Station MEP/Communications – In-Line Station Sites**

1. Final plans for the electrical conduit run layouts will be provided, and load and wiring requirements will be shown and located to service lighting, TVM, and dynamic signage (internal to platform).
2. Typical communications locations, conduit, and loading will be identified on the plans for the inclusion of other necessary communications equipment. All hardware and specific electronics, including the AVL system, TVMs, CCTVs, message signs, etc., are not included in the design, drawings or specifications of this contract.

3. Plan locations and specifications for lighting fixtures will be finalized.
4. Plans for each platform (29) will be developed to identify and layout the necessary off-platform connections to water, electric, and communication equipment cabinets. This will be a maximum of two (2) sheets per site. No wireless network interfaces with Sun Metro City systems are included in this scope.
6. Off project site improvements or designs for communication systems, pole mounts, wi-fi, and interfaces, or modifications at City or Sun Metro facilities are not included in this contract.
7. For a prototypical configuration, Consultant will design a data communication link required for the TVM to communicate with the City's central data system. Modifications to City infrastructure are not included in this scope.

### **3.6.03 Station MEP/Communications – Transit Center (one only)**

MEP/Communications elements are not part of this scope of work.

## **3.7 Landscaping and Irrigation**

### **3.7.01 Landscape – In-Line Station Sites**

1. Final standard landscaping scheme for the station site, showing standard areas for planting and hardscape.
2. Plans for plantings, locations, and performance specifications of drought tolerant elements will be included.
3. Custom landscape schemes are not part of this scope; however, up to eighteen (18) minor modifications to the selected scheme is included in this scope.
4. Irrigation plans for the prototypical station layout will be provided using a sub-surface system. Plan layouts and details will be included.
5. If required, details, piping, and connections for recycled water will be included as a supplement to this scope of work.

## **3.8 ITS Design**

1. Consultant will finalize for the communications link between the TVMs and the central data system.
2. Final plans and configuration for a secure broadband wireless network system for CCTV video and TVM data. Interconnect to the fiber-optic backbone is not part of this scope.
3. Layout of variable message signs. These will be the current signs utilized by the City, and this scope does not include evaluation or implementation of other technologies.
4. Final design of a Closed Circuit Television (CCTV) system for platform monitoring.
5. Vehicle procurement support is not part of this scope

### **Deliverables:**

#### **Final Design:**

Upon the completion of final design phase, the designer shall furnish to the Owner ten (10) copies of final design documents and specifications for review. After the review, the designer shall submit to the Owner three (3) copies for the final revised design documents and specifications for final check. Upon the approval of the final design documents, the

designer should furnish the Owner thirty (30) copies of the final design documents and specifications for bidding. The consultant shall also submit electronic files of the deliverables that includes CADD and pdf versions.

**Specifications:**

All specifications must include type of materials listed in the construction drawings, placement method and quality control and quality assurance testing. The specification shall correlate with unit price format. All specifications must comply with established specification standards and formats. The City of El Paso will provide Consultant with the latest version of the City's standard specifications

**Reproduction**

The City will provide a Purchase Order for the reproduction of all submittals mentioned in this scope. The designer shall be responsible to coordinate all printing for the different phases and for code review requirements. For bidding consultant shall be responsible for coordinating the printing of the El Paso Water Utilities improvements or any other affected utility drawings and include them in construction drawing bidding sets.

**4.1 Bidding Services**

1. Consultant will work in partnership with City personnel to determine bid period and date.
2. Consultant will provide, to the City, responses to all questions from perspective bidders
3. Attendance at a pre-bid conference (1 meeting)
4. Preparation of addenda, if necessary. A maximum of two (2) bid addendums are covered in this scope.
5. Assist City in evaluating bids and re-bidding if required.
6. Consultant will provide objective recommendations concerning the acceptability of subcontractors, based on data and documents contained within the submissions provided in the bidding process. Consultant will not provide subjective input based on elements or experiences of the Consultant with any proposing contractors.

**4.2 Construction Phase Services**

**4.2.01 Survey**

1. Construction staking is not part of this scope.
2. No survey, staking, or ROW activities will be performed for the transit centers.

**4.2.02 Construction Observation Services**

1. Consultant shall attend the pre-construction meeting, and act as a resource to the City.
2. Consultant will review, submittals and shop drawings and provide responses.
3. Consultant will provide written answers to requests for information (RFI's).
4. The Consultant will review change orders.
5. The Consultant will conduct periodic site visits and provide written observation reports to the Owner (maximum of 26 under this scope).
6. The Consultant shall participate on the punch list walk thru, and schedule an ADA consultant review prior to this activity.
7. The Consultant shall sign-off on construction closeout documents (for general conformance with design intent only).
8. The Consultant will not provide inspection services, and the City understands that the Consultant does not assume any responsibility for job site safety, and nothing

## ATTACHMENT A

that Consultant or Consultant's representative may do or say, shall cause any responsibility for job site safety to be incurred.

9. The Consultant will incorporate contractor provided record as-built plans, and provide record drawings, both hard copies and electronic format CDs (including specifications and all attachments).

## **The City of El Paso BRT Branding Scope of Work**

### **INTRODUCTION**

#### **Sun Metro Background**

The City of El Paso is a thriving economic hub on the US/Mexico border with a municipal population of 630,000 and is the 22<sup>nd</sup>-largest city in the country. The Department of Mass Transit—Sun Metro is committed to making public transit a more accessible, attractive, and viable travel option and to make El Paso the least car-dependent city in the nation thereby leading to economic development and improving the quality of life for our community. Currently, Sun Metro provides fixed route, paratransit and other specialized transportation services. It operates approximately 14 million trips each year. Over the last two years, Sun Metro has completed and opened four new transfer centers in the Downtown, West Side, Mission Valley and UTEP area. Overall, Sun Metro has eight transit facilities and provides 58 routes throughout the City of El Paso.

To sustain growth and enhance the quality of life, the City is committed to making the City a more transit and pedestrian-friendly community and improving multimodal accessibility within its major travel corridors. City Council is investing millions of dollars to transform the current hub-and-spoke transit system to node-to-node system thereby increasing access to the transit system and creating more direct and shorter travel time routes. In addition to the recently completed transfer centers, nearly 200 new bus shelters are currently being installed and an additional 100 shelters are planned annually for the next few years, sidewalks are being constructed and new buses are being ordered. The look of the bus stop has been redesigned to provide signage, lighting, landscaping and other functional and aesthetic amenities. In fall 2010, the City of El Paso voted to move forward on creating a Bus Rapid Transit (BRT) System along Alameda, Mesa, Montana and Dyer. The BRT system will provide high quality transit service that provides similar benefits to rail transit, such as improved speed and reliability, but at a much lower implementation cost. The BRT system will attract choice riders by providing an attractive, desirable, enhanced, and efficient transportation option. Alameda Avenue will be the first corridor to be implemented and will be developed using city funds. The City is currently seeking federal grant assistance from the Federal Transit Administration (FTA) in implementing Mesa, Montana and Dyer.

### **PURPOSE**

The City of El Paso is seeking Requests for Proposals (RFP) for professional services from qualified and experienced firms to engage in a branding effort for Sun Metro's new BRT system. Services required under this contract may also include pursuing opportunities to integrate public art in the BRT stations and to develop naming rights partnerships.

**STRATEGY**

Sun Metro's Bus Rapid Transit service will be the first of its kind in the El Paso area. Not only will this new service improve the ride for Sun Metro's existing customers, but it is an opportunity to expand on Sun Metro's ridership base by appealing to a broader market. The branding effort needs to create an appealing identity that establishes the service as an attractive transportation option. The branding should clearly distinguish the BRT service from other Sun Metro services, while maintaining its connection to Sun Metro. The branding effort needs to incorporate the bilingual (English/ Spanish) character and culture of the local community.

**RESPONSIBILITIES OF THE CONSULTANT**

Determine the desired image that will establish a positive identity for the BRT system in our community and encourage ridership. The firm will be tasked with establishing and building that image for the BRT system through various applications at various stages of the system development. The consultant will be responsible for incorporating the brand identity into the buses and the stations. The following items will be included in a lump sum fee:

- Developing logo, color scheme and tagline for the service
- Prepare presentation of the brand identity to the El Paso City Council and the Mass Transit Board (which are the same) for approval
- Developing system signage including placement on BRT vehicles, bus stops and transit centers/stations
- Creation and placement of BRT advertising on various media including TV, radio, print and billboard
- Designing print materials,
- Developing ticket design
- Develop **BRT graphics and content for Sun Metro's Web site**
- Designing the brand appearance of the information kiosks

Public Relations is not included in the lump sum.

Additionally, and on a time and materials basis, in developing the BRT branding components the firm may be asked to:

- Involve the community and conduct research on alternatives
- Conduct Sun Metro Mass Transit Board/El Paso City Council presentations during the process
- Any other BRT related application as requested by the City of El Paso

In addition to creating the various branding elements, the firm should also be prepared to:

- Explore and develop opportunities to incorporate public art within transit stations or facilities if requested
- Research and explore opportunities for naming-rights partnerships

The City of El Paso reserves the right to conduct these tasks in-house or by assigning them to another firm as it deems necessary.

## ATTACHMENT A

In cases when the Contractor is outsourcing expenses such as printing or video production, the contractor should obtain at least 3 bids from different sources and when possible bids should be solicited from DBE vendors. These bids should be presented to Sun Metro for selection and approval.

All work remains the property of the City of El Paso to use or modify as desired.

Contractor shall not incur expenses for which the City of El Paso shall be billed, except for shipping expenses, without first obtaining the approval of the City of El Paso for estimated costs.

Additional items will be provided on a time and materials basis at the request of the owner. List hourly rates for the following:

- Account management services
- Creative services
- Copywriting services
- Production services
- Research services
- Media planning services
- Design development services
- Administrative/clerical services



	LAN	SSW	LTK	CDA	Mci	CQC	FXSA	Focus	Totals
PE Phase	\$ 379,781	\$ 19,442	\$ 84,338	\$ 43,338	\$ 114,394	\$ 39,454	\$ 150,000	\$ -	\$ 830,748
Pre Final	\$ 215,141	\$ 14,655	\$ 69,505	\$ 29,929	\$ 76,435	\$ -	\$ -	\$ -	\$ 405,665
Final Design	\$ 72,011	\$ 12,713	\$ 40,515	\$ 48,543	\$ 53,769	\$ -	\$ -	\$ 600	\$ 228,152
Subtotal LS	\$ 666,933	\$ 46,810	\$ 194,359	\$ 121,810	\$ 244,598	\$ 39,454	\$ 150,000	\$ 600	\$ 1,464,565
Bid & Construction	\$ 95,330	\$ 7,876	\$ 49,667	\$ 29,270	\$ 52,542	\$ -	\$ -	\$ 750	\$ 235,435
Totals	\$ 762,263	\$ 54,687	\$ 244,026	\$ 151,080	\$ 297,140	\$ 39,454	\$ 150,000	\$ 1,350	\$ 1,700,000
Suvery Allowance for Metes and Bounds									\$ 50,000
Branding Consultant									\$ 200,000
GRAND TOTAL									\$ 1,950,000

# ATTACHMENT B

**City of El Paso  
Sun Metro Alameda BRT  
Price Proposal for Design Services  
ROLLUP**

		Price	Labor Price	Total Hours	Direct Expenses
<b>1.0 Preliminary Design Phase</b>					
<b>1.1 Project Mangement</b>					
Scoping Meeting - Corridor Review	ALL	\$2,000	\$0	-	\$ 2,000
Design Kick-off Meeting	ALL	\$14,040	\$11,897	70	\$ 2,144
Monthly Progress Meetings (6 Ea)	ALL	\$34,449	\$27,260	160	\$ 7,189
Agency Coordination	ALL	\$38,635	\$36,540	241	\$ 2,095
Inter discipline coordination & QA/QC	ALL	\$53,976	\$53,858	312	\$ 118
Weekly/Stakeholder Meetings (16 Ea)	ALL	\$30,936	\$25,671	128	\$ 5,265
Staff Assignments and Supervision	ALL	\$866	\$841	-	\$ 25
Monthly Report & Invoicing	ALL	\$9,457	\$9,396	84	\$ 61
		<b>\$184,360</b>	<b>\$165,463</b>	<b>995</b>	<b>\$18,897</b>
<b>1.2 Investigation</b>					
Topographic Survey & Base Maps	FXSA	\$133,924	\$126,310	1,287	\$ 7,614
ROW Determination	FXSA	\$23,164	\$23,164	211	\$ -
Subsurface Utility Investigation	FXSA	\$0	\$0	90	\$ -
Traffic Signals Inventory	LAN	\$0	\$0	-	\$ -
Gap Sidewalk Inventory	LAN	\$7,632	\$5,632	36	\$ 2,000
Irrigation Research/Inventory (18 sites)	SSW	\$0	\$0	-	\$ -
Traffic Counts	LAN	\$0	\$0	-	\$ -
Warrant Analysis	LAN	\$0	\$0	-	\$ -
Geotechnical Investigation	CQC	\$44,332	\$12,635	205	\$ 31,697
Site Visit(s)	ALL	\$21,928	\$18,779	124	\$ 3,149
Data Collection	ALL	\$9,323	\$8,223	68	\$ 1,100
		<b>\$240,302</b>	<b>\$194,742</b>	<b>2,021</b>	<b>\$45,560</b>
<b>1.3 Geometrics Planning</b>					
Lane Configurations	LAN	\$24,642	\$22,642	176	\$ 2,000
Station Layout	LAN	\$41,996	\$35,996	240	\$ 6,000
Proposed Signal Improvements	LAN	\$0	\$0	-	\$ -
VISSIM Modeling	LAN	\$42,786	\$42,786	300	\$ -
Warrant Analysis	LAN	\$0	\$0	-	\$ -
Parkway Improvement Concepts	SSW/LAN	\$10,625	\$10,600	90	\$ 25
Construction Sequencing Plan	LAN	\$7,872	\$7,872	60	\$ -
Cost Estimates	LAN	\$11,572	\$11,572	96	\$ -
		<b>\$139,493</b>	<b>\$131,468</b>	<b>982</b>	<b>\$8,025</b>
<b>1.4 Utility &amp; Drainage</b>					
Utility Information Collection	MCI	\$5,809	\$5,640	76	\$ 169
Utility Layouts (using survey as basemap)	MCI	\$6,661	\$6,467	96	\$ 194
Identify Utility Conflicts	MCI	\$10,044	\$9,877	76	\$ 168
Drainage Analysis (Station Area Locations)	MCI	\$15,467	\$15,079	162	\$ 388
Water Harvesting Opportunities	Mci/SSW	\$717	\$717	10	\$ -
Evaluate Storm Sewer Outfalls (within 1,000' of Stas.)	MCI	\$9,819	\$9,533	100	\$ 286
Station Area Grading	MCI	\$18,185	\$17,732	216	\$ 454
Pavement/Sidewalk/Curb Ramp Design @ Sta. & Int.	MCI	\$18,185	\$17,732	216	\$ 454
Cost Estimates	Mci/SSW	\$9,201	\$8,993	102	\$ 207
		<b>\$94,089</b>	<b>\$91,769</b>	<b>1,054</b>	<b>\$2,319</b>
<b>1.5 Stations Architecture</b>					
Preliminary Canopy Concepts	CDA	\$29,108	\$24,108	260	\$ 5,000
Artist Color Renderings	CDA	\$10,641	\$3,731	16	\$ 6,910
Public Art Coordination	CDA	\$8,692	\$8,692	56	\$ -
Cost Estimates	CDA	\$5,933	\$933	4	\$ 5,000
		<b>\$54,373</b>	<b>\$37,463</b>	<b>336</b>	<b>\$16,910</b>
<b>1.6 Stations MEP &amp; Foundation</b>					
Illumination Standards	LAN	\$8,133	\$8,133	58	\$ -
Plumbing Concepts	LAN	\$1,982	\$1,982	9	\$ -
Foundation Concepts	LAN	\$9,537	\$9,537	68	\$ -
Cost Estimates	LAN	\$2,796	\$2,796	18	\$ -
		<b>\$22,448</b>	<b>\$22,448</b>	<b>153</b>	<b>\$0</b>
<b>1.7 Landscaping &amp; Irrigation</b>					
Preliminary Concepts	SSW	\$7,291	\$7,266	84	\$ 25
Streetscape Furniture Concepts	SSW	\$3,596	\$3,596	33	\$ -
Cost Estimates	SSW	\$1,220	\$1,220	17	\$ -
		<b>\$12,107</b>	<b>\$12,082</b>	<b>134</b>	<b>\$25</b>
<b>1.8 Systems - Concepts</b>					
Internal Coord Meeting at LTK Chicago	LTK	\$0	\$0	-	\$ -
Prepare for Comm and Fare Workshop	LTK	\$9,701	\$9,701	64	\$ -
Fare Collection Workshop	LTK	\$10,318	\$10,318	82	\$ -
Comm Workshop	LTK	\$10,318	\$10,318	82	\$ -
Prepare Alternative White Paper -comm and fare	LTK	\$0	\$0	-	\$ -

# ATTACHMENT B

## Sun Metro Alameda BRT Price Proposal for Design Services ROLLUP

		Price	Labor Price	Total Hours	Direct Expenses
	Coor and Q&A Regarding Alt White Paper	LTK	\$0	\$0	- \$ -
	Prepare for Design Basis Meeting with Agency	LTK	\$6,487	\$6,487	42 \$ -
	Fare Collection Design Basis Meeting	LTK	\$0	\$0	- \$ -
	Comm Design Basis Meeting	LTK	\$2,430	\$2,430	16 \$ -
	Prepare Design Basis Memo (DBM) - comm and fare	LTK	\$10,322	\$10,322	66 \$ -
	Coor and Q&A Regarding DBM	LTK	\$0	\$0	- \$ -
	Cost Estimates	LTK	\$9,486	\$9,486	60 \$ -
			\$59,060	\$59,060	412 \$0
1.9	Public Outreach				
	Plan Preparation for City coordination	LAN	\$0	\$0	- \$ -
	Presentation Materials	LAN	\$12,644	\$12,644	88 \$ -
	Attendance at Public Meetings (6 Ea)	MCI/LAN	\$11,813	\$11,585	76 \$ 228
	Public Meetings - Generate Meeting records (6 Ea)	LAN	\$3,684	\$3,684	24 \$ -
			\$28,141	\$27,913	188 \$228
			\$834,373	\$742,409	6,255 \$91,964
2.0	Pre-Final Design Phase				
2.1	Project Mangement				
	Comment Resolution from PE	ALL	\$15,442	\$15,349	98 \$ 93
	Monthly Progress Meeting (3 Ea)	ALL	\$21,045	\$17,450	98 \$ 3,595
	Design Coordination & QA/QC	ALL	\$30,365	\$30,229	186 \$ 136
	Construction Sequencing Plan	LAN	\$8,289	\$8,289	48 \$ -
	Construction Schedule	LAN	\$6,051	\$6,051	38 \$ -
	Weekly/Stakeholder Meetings (9 Ea)	ALL	\$20,507	\$15,446	52 \$ 5,061
	Staff Assignments and Supervision	ALL	\$433	\$420	2 \$ 13
	Monthly Report & Invoicing	ALL	\$5,989	\$5,922	60 \$ 67
			\$108,120	\$99,156	582 \$8,964
2.2	Utility Coordination				
	Easement Preparation	FXSA	\$0	\$0	- \$ -
	Subsurface Utility Investigation	FXSA	\$0	\$0	- \$ -
	Utility Design (Third party) Coordination	MCI	\$10,611	\$10,405	84 \$ 206
			\$10,611	\$10,405	84 \$206
2.3	Traffic Signals & Lane Configuration				
	Fixed Signage & Striping Plans	LAN	\$23,538	\$20,538	160 \$ 3,000
	Traffic Signal Design	LAN	\$0	\$0	- \$ -
	Signal Timing Plans	LAN	\$32,218	\$29,218	184 \$ 3,000
	Traffic & Pedestrian Control Plan	LAN	\$39,442	\$36,442	256 \$ 3,000
	DRAFT Specifications	LAN	\$7,515	\$7,515	42 \$ -
	Cost Estimates	LAN	\$7,850	\$7,850	58 \$ -
			\$110,562	\$101,562	700 \$9,000
2.4	Civil / Drainage Design				
	Stormwater P&P Sheets	MCI	\$0	\$0	- \$ -
	Detention/Ponding Area Design	MCI	\$0	\$0	- \$ -
	Station area grading	MCI	\$18,572	\$18,031	248 \$ 541
	Pavement/Sidewalk/Curb Ramp Design @ Sta. & Int.	MCI	\$19,545	\$18,975	260 \$ 569
	SWPPP Preparation	MCI	\$6,222	\$6,041	84 \$ 181
	DRAFT Specifications	MCI	\$5,036	\$4,889	56 \$ 147
	Cost Estimates	MCI	\$4,848	\$4,708	56 \$ 140
			\$54,222	\$52,644	704 \$1,578
2.5	Stations - Architect				
	Architecture Drawings	CDA	\$8,896	\$8,896	120 \$ -
	Cost Estimates	CDA	\$3,500	\$0	- \$ 3,500
	DRAFT Specifications	CDA	\$1,800	\$1,800	32 \$ -
	Artist Color Renderings	CDA	\$6,959	\$0	- \$ 6,959
	Public Art Coordination	CDA	\$4,272	\$4,272	48 \$ -
			\$25,427	\$14,968	200 \$10,459
2.6	Station - MEP & Foundation				
	MEP Design Drawings	LAN	\$9,863	\$9,863	72 \$ -
	Foundation Design Drawings	LAN	\$8,136	\$8,136	62 \$ -
	Cost Estimates	LAN	\$3,356	\$3,356	18 \$ -
	DRAFT Specifications	LAN	\$4,934	\$4,934	28 \$ -
			\$26,290	\$26,290	180 \$0
2.7	Landscaping & Irrigation				
	Landscaping Plans	SSW	\$2,749	\$2,676	41 \$ 73
	Irrigation System Design	SSW	\$2,806	\$2,806	43 \$ -
	Streetscape Furniture Plans	SSW	\$1,619	\$1,619	24 \$ -
	Parkway improvement features	SSW	\$1,982	\$1,982	30 \$ -
	Cost Estimates	SSW	\$860	\$860	12 \$ -
	DRAFT Specifications	SSW	\$1,380	\$1,380	19 \$ -
			\$11,396	\$11,323	169 \$73
2.8	ITS Design				
	Vehicle Procurement Coordination	LTK	\$0	\$0	- \$ -

# ATTACHMENT B

## Sun Metro Alameda BRT Price Proposal for Design Services ROLLUP

		Price	Labor Price	Total Hours	Direct Expenses
Automated Vehicle location System	LTK	\$0	\$0	-	\$ -
Fare Collection System	LTK	\$8,840	\$8,840	60	\$ -
Variable Message Signage	LTK	\$0	\$0	-	\$ -
Surveillance Video System	LTK	\$15,292	\$15,292	130	\$ -
WiFi Hotspots	LTK	\$17,721	\$17,721	146	\$ -
Traffic Signal Fiber Communication	LTK/LAN	\$0	\$0	-	\$ -
Cost Estimates	LTK	\$7,432	\$7,432	46	\$ -
DRAFT Specifications	LTK	\$7,656	\$7,656	50	\$ -
		\$56,941	\$56,941	432	\$0
		\$103,570	\$137,290	3,051	\$30,280
<b>3.0 Final Design Phase</b>					
<b>3.1 Project Mangement</b>					
Comment Resolution from PFE	ALL	\$15,658	\$15,540	102	\$ 118
Monthly Progress Meeting (2 Ea)	ALL	\$12,970	\$10,885	68	\$ 2,085
Design Coordination & QA/QC	ALL	\$29,127	\$28,986	190	\$ 141
Weekly/Stakeholder Meetings (6 Ea)	ALL	\$7,335	\$5,820	28	\$ 1,515
Staff Assignments and Supervision	ALL	\$433	\$420	2	\$ 13
Monthly Report & Invoicing	ALL	\$4,245	\$4,206	34	\$ 39
		\$69,768	\$65,856	424	\$3,912
<b>3.2 Utility Coordination</b>					
Easement Preparation	FXSA	\$0	\$0	-	\$ -
Subsurface Utility Investigation	FXSA	\$0	\$0	-	\$ -
Utility Adjustment Design (Third party) Coordination	MCI	\$7,546	\$7,476	56	\$ 70
		\$7,546	\$7,476	56	\$70
<b>3.3 Traffic Signals &amp; Lane Configuration</b>					
Fixed Signage & Striping Plans	LAN	\$10,780	\$8,914	72	\$ 1,866
Traffic Signal Design	LAN	\$0	\$0	-	\$ -
Specifications	LAN	\$0	\$0	-	\$ -
Cost Estimates	LAN	\$0	\$0	-	\$ -
		\$10,780	\$8,914	72	\$1,866
<b>3.4 Civil / Drainage Design</b>					
Stormwater P&P Sheets	MCI	\$0	\$0	-	\$ -
Detention/Ponding Area Design	MCI	\$0	\$0	-	\$ -
Station area grading plans	MCI	\$11,671	\$11,331	160	\$ 340
Pavement/Sidewalk/Curb Ramp Design @ Sta. & Int.	MCI	\$13,145	\$12,883	176	\$ 262
SWPPP Preparation	MCI	\$4,743	\$4,605	40	\$ 138
ADA/TDLR Review (Design)	FoA/MCI	\$2,199	\$1,552	16	\$ 647
Specifications	MCI	\$3,567	\$3,463	35	\$ 104
Cost Estimates	MCI	\$3,551	\$3,447	46	\$ 103
		\$38,875	\$37,281	473	\$1,594
<b>3.5 Stations - Architect</b>					
Architecture Drawings	CDA	\$23,720	\$23,720	316	\$ -
Cost Estimates	CDA	\$5,000	\$0	-	\$ 5,000
Specifications	CDA	\$3,306	\$3,306	52	\$ -
Artist Color Renderings	CDA	\$4,721	\$0	-	\$ 4,721
Public Art Coordination & Incorporation	CDA	\$1,656	\$1,656	16	\$ -
Building Permit Process	CDA	\$4,868	\$4,868	56	\$ -
		\$43,271	\$33,550	440	\$9,721
<b>3.6 Station - MEP &amp; Foundation</b>					
MEP Design	LAN	\$8,365	\$8,365	60	\$ -
Foundation Design	LAN	\$6,991	\$6,991	56	\$ -
Cost Estimates	LAN	\$1,969	\$1,969	10	\$ -
Specifications	LAN	\$1,772	\$1,772	8	\$ -
		\$19,096	\$19,096	134	\$0
<b>3.7 Landscaping &amp; Irrigation</b>					
Landscaping Plans	SSW	\$2,125	\$2,052	31	\$ 73
Irrigation System Design	SSW	\$2,179	\$2,179	32	\$ -
Streetscape Furniture Plans	SSW	\$896	\$896	13	\$ -
Parkway improvement features	SSW	\$2,049	\$2,049	30	\$ -
Cost Estimates	SSW	\$1,259	\$1,259	19	\$ -
Specifications	SSW	\$1,036	\$1,036	15	\$ -
		\$9,542	\$9,469	140	\$73
<b>3.8 ITS Design</b>					
Vehicle Procurement Coordination	LTK	\$0	\$0	-	\$ -
Automated Vehicle location System	LTK	\$0	\$0	-	\$ -
Fare Collection System	LTK	\$7,341	\$7,341	46	\$ -
Variable Message Signage	LTK	\$0	\$0	-	\$ -
Surveillance Video System	LTK	\$4,911	\$4,911	40	\$ -
WiFi Hotspots	LTK	\$5,101	\$5,101	42	\$ -
Traffic Signal Fiber Communication	LTK/LAN	\$0	\$0	-	\$ -
Cost Estimates	LTK	\$5,164	\$5,164	32	\$ -

# ATTACHMENT B

## Sun Metro Alameda BRT Price Proposal for Design Services ROLLUP

		Price	Labor Price	Total Hours	Direct Expenses
Specifications	LTK	\$5,226	\$5,226	34	\$ -
		\$27,744	\$27,744	196	\$0
		<b>\$226,622</b>	<b>\$209,387</b>	<b>1,935</b>	<b>\$17,235</b>
<b>Bidding/Construction Phase</b>					
4.1 Bidding Assistance					
Attend Pre-Bid Conference	ALL	\$6,447	\$6,419	42	\$ 28
Respond to queries from prospective bidders	ALL	\$15,737	\$15,642	134	\$ 95
Contract Documents Revision	ALL	\$933	\$933	4	\$ -
Prepare Addenda	ALL	\$23,753	\$23,651	226	\$ 102
Evaluate Bids & provide recommendation to	LAN	\$2,428	\$2,428	14	\$ -
		<b>\$49,297</b>	<b>\$49,073</b>	<b>419</b>	<b>\$225</b>
4.2 Construction Phase Services					
Review of Shop drawings & submittals	ALL	\$39,480	\$38,362	337	\$ 1,118
Responses to RFI	ALL	\$33,816	\$32,806	283	\$ 1,011
Conduct monthly Site Visits and prepare reports	ALL	\$50,587	\$43,759	414	\$ 6,828
Construction Change Orders Review	LAN	\$6,632	\$5,981	36	\$ 651
Pay Estimate Review	LAN	\$3,717	\$3,717	24	\$ -
Commissioning and Start-up of systems	LTK/LAN	\$0	\$0	-	\$ -
Substantial Completion walk through	ALL	\$15,791	\$11,370	96	\$ 4,421
Punch list preparation	ALL	\$11,613	\$11,268	97	\$ 345
Prepare "As-Built" drawings	ALL	\$17,429	\$15,989	171	\$ 1,197
Signal Timing Plans	LAN	\$7,071	\$6,429	92	\$ 643
		<b>\$186,138</b>	<b>\$169,680</b>	<b>1,550</b>	<b>\$16,213</b>
		<b>\$235,435</b>	<b>\$218,753</b>	<b>1,989</b>	<b>\$16,448</b>
<b>Total Estimated Cost</b>		<b>\$1,700,000</b>	<b>\$1,543,839</b>	<b>13,210</b>	<b>\$155,917</b>

City of El Paso  
Sun Metro Alameda BRT  
Price Proposal for Design Services  
LAN

[illegible]

# ATTACHMENT B

City of El Paso  
Sun Metro Alameda BRT  
Price Proposal for Design Services  
LAN

Price Proposal for Design Services			100%		100%																100%	
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# ATTACHMENT B

## City of El Paso Sun Metro Alameda BRT Price Proposal for Design Services SSW

			Payroll OH	25%									
			G&A OH&P	264%									
			Billing Multiplier	3.3									
			Raw Rate	\$38.48	\$24.75	\$19.71	\$17.65	\$12.00					
			Billable Rate	\$127	\$82	\$85	\$58	\$40					
		Price	Labor Price	Total Hours	Principal/ LandArch	Project Manager	Landscape Designer2	Landscape Designer1	Admin	Direct Expenses	Sub-contract Cost		
1.0	Preliminary Design Phase												
1.1	Project Mangement												
	Design Kick-off Meeting	ALL	\$753	\$653	8		8				\$100		
	Monthly Progress Meetings (6 Ea)	ALL	\$1,048	\$980	12		12				\$68		
	Agency Coordination	ALL	\$1,066	\$1,066	14	2	8		4				
	Inter discipline coordination & QA/QC	ALL	\$1,320	\$1,320	16	4	8		4				
	Weekly/Stakeholder Meetings (24 Ea)	ALL	\$0	\$0	0								
	Staff Assignments and Supervision	ALL	\$0	\$0	0								
	Monthly Report & Invoicing	ALL	\$0	\$0	0								
			\$4,187	\$4,019	50	6	36	-	8	\$168	\$0		
1.2	Investigation												
	Topographic Survey & Base Maps	FXSA	\$0	\$0	0								
	ROW Determination	FXSA	\$0	\$0	0								
	Subsurface Utility Investigation	FXSA	\$0	\$0	0								
	Traffic Signals Inventory	LAN	\$0	\$0	0								
	Gap Sidewalk Inventory	LAN	\$0	\$0	0								
	Irrigation Research/Inventory (18 sites)	SSW	\$0	\$0	0								
	Traffic Counts	LAN	\$0	\$0	0								
	Warrant Analysis	LAN	\$0	\$0	0								
	Geotechnical Investigation	CQC	\$0	\$0	0								
	Site Visit(s)	ALL	\$0	\$0	0								
	Data Collection	ALL	\$0	\$0	0								
			\$0	\$0	-	-	-	-	-	\$0	\$0		
1.3	Geometrics Planning												
	Lane Configurations	LAN	\$0	\$0	0								
	Station Layout	LAN	\$0	\$0	0								
	Traffic Signals Modification Concepts	LAN	\$0	\$0	0								
	VISSIM Modeling	LAN	\$0	\$0	0								
	Warrant Analysis												
	Parkway Improvement Concepts (overall & prototype)	SSW/LAN	\$5,029	\$5,004	66	8	16	40	2	\$25			
	Construction Sequencing Plan	LAN	\$0	\$0	0								
	Cost Estimates	LAN	\$799	\$799	12	1	2	6	3				
			\$5,828	\$5,803	78	9	18	46	5	\$25	\$0		
1.4	Utility & Drainage												
	Utility Information Collection	MCI	\$0	\$0	0								
	Utility Layouts (using survey as basemap)	MCI	\$0	\$0	0								
	Identify Utility Conflicts												
	Drainage Analysis (Station Area Locations)												
	Water Harvesting Opportunities	Mci/SSW	\$717	\$717	10		4	6					
	Evaluate Storm Sewer Outfalls (within 1,000' of Stas.)												
	Station Area Grading												
	Pavement/Sidewalk/Curb Ramp Design @ Sta. & Int.												
	Cost Estimates	Mci/SSW	\$147	\$147	2		1	1					
			\$864	\$864	12	-	6	7	-	\$0	\$0		
1.5	Stations Architecture												
	Preliminary Canopy Concepts	CDA	\$0	\$0	0								
	Artist Color Renderings	CDA	\$0	\$0	0								
	Public Art Coordination	CDA	\$0	\$0	0								
	Cost Estimates	CDA	\$0	\$0	0								
			\$0	\$0	-	-	-	-	-	\$0	\$0		
1.6	Stations MEP & Foundation												
	Illumination Standards	LAN	\$0	\$0	0								
	Plumbing Concepts	LAN	\$0	\$0	0								
	Foundation Concepts	LAN	\$0	\$0	0								
	Cost Estimates	LAN	\$0	\$0	0								
			\$0	\$0	-	-	-	-	-	\$0	\$0		
1.7	Landscape & Irrigation												
	Preliminary Concepts (18 Sites)	SSW	\$5,519	\$5,494	76	8	16	32	16	4	\$25		
	Streetscape Furniture Concepts	SSW	\$1,824	\$1,824	25	2	6	16		1			
	Cost Estimates	SSW	\$1,220	\$1,220	17	2	4	8		3			
			\$8,563	\$8,538	118	12	26	66	16	8	\$25		
1.8	Systems - Concepts												
	Internal Coord Meeting at LTK Chicago	LTK	\$0	\$0	0								
	Prepare for Comm and Fare Workshop	LTK	\$0	\$0	0								
	Fare Collection Workshop	LTK	\$0	\$0	0								
	Comm Workshop	LTK	\$0	\$0	0								
	Prepare Alternative White Paper -comm and fare	LTK	\$0	\$0	0								
	Coord and Q&A Regarding All White Paper	LTK	\$0	\$0	0								
	Prepare for Design Basis Meeting with Agency	LTK	\$0	\$0	0								
	Fare Collection Design Basis Meeting	LTK	\$0	\$0	0								
	Comm Design Basis Meeting	LTK	\$0	\$0	0								
	Prepare Design Basis Memo (DBM) - comm and fare	LTK	\$0	\$0	0								
	Coord and Q&A Regarding DBM	LTK	\$0	\$0	0								
	Cost Estimates	LTK	\$0	\$0	0								
			\$0	\$0	-	-	-	-	-	\$0	\$0		
1.9	Public Outreach												
	Plan Preparation for City coordination	LMGI/LAN	\$0	\$0	0								
	Presentation Materials	LMGI	\$0	\$0	0								
	Attendance at Public Meetings (6 Ea)	LMGI/LAN	\$0	\$0	0								
	Public Meetings - Generate Meeting records (6 Ea)	LMGI/LAN	\$0	\$0	0								
			\$0	\$0	-	-	-	-	-	\$0	\$0		
			\$19,442										
2.0	Pre-Final Design Phase												
2.1	Project Mangement												
	Comment Resolution from PE	ALL	\$666	\$666	10		4	4	2				
	Monthly Progress Meeting (3 Ea)	ALL	\$1,025	\$980	12		12			\$45			
	Design Coordination & QA/QC	ALL	\$1,567	\$1,567	18	4	12	0	2				
	Construction Sequencing Plan	LAN	\$0	\$0	0								



# ATTACHMENT B

## City of El Paso Sun Metro Alameda BRT Price Proposal for Design Services SSW

		Payroll OH 25%	G&A OH&P 264%	Billing Multiplier 3.3	Raw Rate \$38.48	\$24.75	\$19.71	\$17.65	\$12.00		
					Billable Rate \$127	\$82	\$65	\$58	\$40		
		Price	Labor Price	Total Hours	Principal/ LandArch	Project Manager	Landscape Designer2	Landscape Designer1	Admin	Direct Expenses	Sub-contract Cost
Construction Schedule	LAN	\$0	\$0	0							
Weekly/Stakeholder Meetings (12 Ea)	ALL	\$0	\$0	0							
Staff Assignments and Supervision	ALL	\$0	\$0	0							
Monthly Report & Invoicing	ALL	\$0	\$0	0							
		\$3,258	\$3,213	40	4	28	4	-	4	\$45	\$0
2.2 Utility Coordination											
Easement Preparation	FXSA	\$0	\$0	0							
Subsurface Utility Investigation	FXSA	\$0	\$0	0							
Utility Design (Third party) Coordination	MCI	\$0	\$0	0						\$0	\$0
		\$0	\$0	-	-	-	-	-	-	\$0	\$0
2.3 Traffic Signals & Lane Configuration											
Fixed Signage & Striping Plans	LAN	\$0	\$0	0							
Traffic Signal Design	LAN	\$0	\$0	0							
Signal Timing Plans	LAN	\$0	\$0	0							
Traffic & Pedestrian Control Plan	LAN	\$0	\$0	0							
DRAFT Specifications	LAN	\$0	\$0	0							
Cost Estimates	LAN	\$0	\$0	0						\$0	\$0
		\$0	\$0	-	-	-	-	-	-	\$0	\$0
2.4 Civil / Drainage Design											
Stormwater P&P Sheets	MCI	\$0	\$0	0							
Detention/Ponding Area Design	MCI	\$0	\$0	0							
Station area grading	MCI	\$0	\$0	0							
Pavement & Sidewalk Design	MCI	\$0	\$0	0							
SWPPP Preparation	MCI	\$0	\$0	0							
DRAFT Specifications	MCI	\$0	\$0	0							
Cost Estimates	MCI	\$0	\$0	0						\$0	\$0
		\$0	\$0	-	-	-	-	-	-	\$0	\$0
2.5 Stations - Architect											
Architecture Drawings	CDA	\$0	\$0	0							
Cost Estimates	CDA	\$0	\$0	0							
DRAFT Specifications	CDA	\$0	\$0	0							
Artist Color Renderings	CDA	\$0	\$0	0							
Public Art Coordination	CDA	\$0	\$0	0						\$0	\$0
		\$0	\$0	-	-	-	-	-	-	\$0	\$0
2.6 Station - MEP & Foundation											
MEP Design Drawings	LAN	\$0	\$0	0							
Foundation Design Drawings	LAN	\$0	\$0	0							
Cost Estimates	LAN	\$0	\$0	0							
DRAFT Specifications	LAN	\$0	\$0	0						\$0	\$0
		\$0	\$0	-	-	-	-	-	-	\$0	\$0
2.7 Landscaping & Irrigation(18 sites)											
Landscaping Plans	SSW	\$2,749	\$2,676	41	2	6	7	24	2	\$73	
Irrigation System Design	SSW	\$2,806	\$2,806	43	2	6	9	24	2		
Streetscape Furniture Plans	SSW	\$1,619	\$1,619	24	2	4	4	12	2		
Parkway improvement features	SSW	\$1,982	\$1,982	30	2	4	6	16	2		
Cost Estimates	SSW	\$860	\$860	12	2	2	2	4	2		
DRAFT Specifications	SSW	\$1,380	\$1,380	19	1	8	8	80	2		
		\$11,396	\$11,323	169	11	30	36	80	12	\$73	\$0
2.8 ITS Design											
Vehicle Procurement Coordination	LTK	\$0	\$0	0							
Automated Vehicle location System	LTK	\$0	\$0	0							
Fare Collection System	LTK	\$0	\$0	0							
Variable Message Signage	LTK	\$0	\$0	0							
Surveillance Video System	LTK	\$0	\$0	0							
WiFi Hotspots	LTK	\$0	\$0	0							
Traffic Signal Fiber Communication	LTK/LAN	\$0	\$0	0							
Cost Estimates	LTK	\$0	\$0	0							
DRAFT Specifications	LTK	\$0	\$0	0						\$0	\$0
		\$0	\$0	-	-	-	-	-	-	\$0	\$0
		\$14,655									
3.0 Final Design Phase											
3.1 Project Management											
Comment Resolution from PFE	ALL	\$666	\$666	10		4	4		2		
Monthly Progress Meeting (2 Ea)	ALL	\$683	\$683	8		8			\$30		
Design Coordination & QA/QC	ALL	\$1,821	\$1,821	20	6	12	0		2		
Weekly/Stakeholder Meetings (6 Ea)	ALL	\$0	\$0	0							
Staff Assignments and Supervision	ALL	\$0	\$0	0							
Monthly Report & Invoicing	ALL	\$0	\$0	0							
		\$3,171	\$3,141	38	6	24	4	-	4	\$30	\$0
3.2 Utility Coordination											
Easement Preparation	FXSA	\$0	\$0	0							
Subsurface Utility Investigation	FXSA	\$0	\$0	0							
Utility Adjustment Design (Third party) Coordination	MCI	\$0	\$0	0						\$0	\$0
		\$0	\$0	-	-	-	-	-	-	\$0	\$0
3.3 Traffic Signals & Lane Configuration											
Fixed Signage & Striping Plans	LAN	\$0	\$0	0							
Traffic Signal Design	LAN	\$0	\$0	0							
Specifications	LAN	\$0	\$0	0							
Cost Estimates	LAN	\$0	\$0	0						\$0	\$0
		\$0	\$0	-	-	-	-	-	-	\$0	\$0
3.4 Civil / Drainage Design											
Stormwater P&P Sheets	MCI	\$0	\$0	0							
Detention/Ponding Area Design	MCI	\$0	\$0	0							
Station area grading plans	MCI	\$0	\$0	0							
Pavement & Sidewalk Design	MCI	\$0	\$0	0							
SWPPP Preparation	MCI	\$0	\$0	0							
ADA/TDLR Review (Design)	FoA/MCI	\$0	\$0	0							
Specifications	MCI	\$0	\$0	0							
Cost Estimates	MCI	\$0	\$0	0						\$0	\$0
		\$0	\$0	-	-	-	-	-	-	\$0	\$0

# ATTACHMENT B

**City of El Paso  
Sun Metro Alameda BRT  
Price Proposal for Design Services  
SSW**

Sun Metro Alameda BRT			Payroll OH		25%									
Price Proposal for Design Services			GAA OH&P		26.4%									
SSW			Billing Multiplier		3.3									
			Raw Rate		\$38.48		\$24.75		\$19.71		\$17.65		\$12.00	
			Billable Rate		\$127		\$82		\$65		\$55		\$40	
			Price	Labor Price	Total Hours	Principal/ LandArch	Project Manager	Landscape Designer2	Landscape Designer1	Admin	Direct Expenses	Sub-contract Cost		
3.5 Stations - Architect														
Architecture Drawings			CDA	\$0	\$0	0								
Cost Estimates			CDA	\$0	\$0	0								
Specifications			CDA	\$0	\$0	0								
Artist Color Renderings			CDA	\$0	\$0	0								
Public Art Coordination & Incorporation			CDA	\$0	\$0	0								
Building Permit Process			CDA	\$0	\$0	0								
			\$0	\$0	-	-	-	-	-	-	\$0	\$0		
3.6 Station - MEP & Foundation														
MEP Design			LAN	\$0	\$0	0								
Foundation Design			LAN	\$0	\$0	0								
Cost Estimates			LAN	\$0	\$0	0								
Specifications			LAN	\$0	\$0	0								
			\$0	\$0	-	-	-	-	-	-	\$0	\$0		
3.7 Landscaping & Irrigation (18 sites)														
Landscaping Plans			SSW	\$2,125	\$2,052	31	1	8	4	16	2	\$ 73		
Irrigation System Design			SSW	\$2,179	\$2,179	32	2	8	4	16	2			
Streetscape Furniture Plans			SSW	\$896	\$896	13	1	4	2	4	2			
Parkway improvement features			SSW	\$2,049	\$2,049	30	2	8	2	16	2			
Cost Estimates			SSW	\$1,259	\$1,259	19	1	4	4	8	2			
Specifications			SSW	\$1,036	\$1,036	15	1	6	4	4	4			
			\$9,542	\$9,469	140	8	38	20	60	14	\$73	\$0		
3.8 ITS Design														
Vehicle Procurement Coordination			LTK	\$0	\$0	0								
Automated Vehicle location System			LTK	\$0	\$0	0								
Fare Collection System			LTK	\$0	\$0	0								
Variable Message Signage			LTK	\$0	\$0	0								
Surveillance Video System			LTK	\$0	\$0	0								
WiFi Hotspots			LTK	\$0	\$0	0								
Traffic Signal Fiber Communication			LTK/LAN	\$0	\$0	0								
Cost Estimates			LTK	\$0	\$0	0								
Specifications			LTK	\$0	\$0	0								
			\$0	\$0	-	-	-	-	-	-	\$0	\$0		
			\$12,713											
4.0 Bidding / Construction Phase														
4.1 Bidding Assistance														
Attend Pre-Bid Conference			ALL	\$327	\$327	4		4						
Respond to queries from prospective bidders			ALL	\$1,054	\$1,039	16		6	6		4	\$ 15		
Contract Documents Revision			ALL	\$0	\$0	0								
Prepare Addenda			LAN	\$0	\$0	0								
Evaluate Bids & provide recommendation to the City			LAN	\$0	\$0	0								
			\$1,380	\$1,365	20	-	10	6	-	4	\$15	\$0		
4.2 Construction Phase Services														
Review of Shop drawings & submittals			ALL	\$542	\$542	9		2	4		3			
Responses to RFI			ALL	\$845	\$845	13		3	8		2			
Conduct monthly Site Visits and prepare reports			ALL	\$1,524	\$1,310	19		6	12		1	\$ 214		
Construction Change Orders Review			LAN	\$0	\$0	0								
Pay Estimate Review			LAN	\$0	\$0	0								
Commissioning and Start-up of systems			LTK/LAN	\$0	\$0	0								
Substantial Completion walk through			ALL	\$1,174	\$1,174	16		8	8					
Punch list preparation			ALL	\$419	\$419	8			4		4			
Prepare "As-Built" drawings			ALL	\$1,993	\$1,987	30		4	24		2	\$ 26		
Signal Timing Plans			LAN	\$0	\$0	0								
			\$6,496	\$6,256	95	-	23	60	-	12	\$240	\$0		
			\$7,877											
Total Estimated Cost			\$54,687	\$53,993	760	56	238	239	156	71	694	-		

## ATTACHMENT B

City of El Paso Sun Metro Alameda BRT Price Proposal for Design Services LTK Engineering Services		LTK Overhead 160% LTK Fee 10% LTK Billing Multiplier 2.85														TRC Billing Multiplier				
		Raw Rate	\$76	\$72	\$65	\$53	\$54	\$73	\$54	\$33	\$31	\$33	\$31	\$33	\$31	\$33	\$31	\$33	\$31	\$33
		Estimate Rate	\$218	\$206	\$194	\$152	\$154	\$200	\$158	\$155	\$155	\$155	\$155	\$155	\$155	\$155	\$155	\$155	\$155	\$155
		Targeted	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps
		Overnight and QA	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps
		OC and PE	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps
		Estimate	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps
		Cost	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps
		CADD	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps
		Admin	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps
		Direct Expenses	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps
		Sub-contract Cost	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps	Comps
Task / Task Description																				
Price Labor Price Total Hours Oversight and QA Fare Collection OC and PE Comms Comms Comms Estimate Oversight Cost Estimate CADD Support Admin Direct Expenses Sub-contract Cost																				
1.1 Project Management																				
Scoping Meeting - Corridor Review	ALL	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$1,000
Design Kick-off Meeting	ALL	\$2,822	\$1,822	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monthly Progress Meetings (6 Ea)	ALL	\$4,952	\$4,952	30	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Agency Coordination	ALL	\$6,075	\$6,075	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inter-discipline coordination & QA/QC	ALL	\$8,071	\$8,071	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weekly/Stakeholder Meetings (24 Ea)	ALL	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Staff Assignments and Supervision	ALL	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monthly Report & Invoicing	ALL	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		\$22,820	\$21,820	138	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$1,000
1.2 Investigation																				
Topographic Survey & Data Maps	FXSA	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROW Determination	FXSA	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subsurface Utility Investigation	FXSA	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Traffic Signal Inventory	LAN	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gap Sidewalk Inventory	LAN	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Intersection Retention Inventory (18 sites)	SSW	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Traffic Counts	LAN	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Witness Analysis	LAN	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Geotechnical Investigation	CQC	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Site Visits	ALL	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Data Collection	ALL	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0
1.3 Geometrics Planning																				
Lane Configurations	LAN	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Station Layout	LAN	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Proposed Signal Improvements	LAN	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VISSIM Modeling	LAN	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Witness Analysis	LAN	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pathway Improvement Concepts	SSW/LAN	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Construction Sequencing Plan	LAN	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cost Estimates	LAN	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0
1.4 Utility & Drainage																				
Utility Information Collection	MCI	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Utility Layouts (using survey as base map)	MCI	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Utility Layout Conflicts	MCI	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Drainage Analysis (Station Area Locations)	MCI	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Harvesting Opportunities	MCI/SSW	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Evaluate Storm Sewer Outfalls (within 1,000' of Stas.)	MCI	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Station Area Grading	MCI	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pavement/Sidewalk/Curb Ramp Design @ Sta. & Int.	MCI	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cost Estimates	MCI/SSW	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0
		\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0
1.5 Stations Architecture																				
Preliminary Canopy Concepts	CDA	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Artist Color Renderings	CDA	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Public Art Coordination	CDA	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cost Estimates	CDA	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0
1.6 Stations MEP & Foundation																				
Building Standards	LAN	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plumbing Concepts	LAN	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Foundation Concepts	LAN	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cost Estimates	LAN	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0
1.7 Landscaping & Irrigation																				
Preliminary Concepts	SSW	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Streetscape Furniture Concepts	SSW	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cost Estimates	SSW	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0
1.8 Systems - Concepts																				
Initial Cost Meeting at LTK Chicago	LTK	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prepare for Comm and Fare Workshop	LTK	\$9,701	\$5,701	64	2	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fare Collection Workshop	LTK	\$11,326	\$10,318	82	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$1,008
Comm Workshop	LTK	\$11,318	\$10,318	82	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$1,000
Prepare Alternative White Paper - comm and fare	LTK	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cost and O&A Regarding All White Paper	LTK	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prepare for Design Basis Meeting with Agency	LTK	\$6,487	\$6,487	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fare Collection Design Basis Meeting	LTK	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Comm Design Basis Meeting	LTK	\$3,189	\$2,430	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$750
Prepare Design Basis Memo (DBM) - comm and fare	LTK	\$10,322	\$10,322	66	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cost and O&A Regarding DBM	LTK	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cost Estimates	LTK	\$9,455	\$9,455	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		\$51,818	\$53,050	412	8	18	-	-	-	-	-	-	-	-	-	-	-	-	-	\$2,762
1.9 Public Outreach																				
Plan Preparation for City coordination	LAN	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Presentation Materials	LAN	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Attendance at Public Meetings (6 Ea)	MCI/LAN	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Public Meetings - Generate Meeting records (6 Ea)	LAN	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0
2.1 Project Management																				
Comment Resolution from PE	ALL	\$2,866	\$2,866	18	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monthly Progress Meeting (3 Ea)	ALL	\$2,476	\$2,476	15	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Design Coordination & QA/QC	ALL	\$5,128	\$5,128	34	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Construction Sequencing Plan	LAN	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Construction Schedule	LAN	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weekly/Stakeholder Meetings (12 Ea)	ALL	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Staff Assignments and Supervision	ALL	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monthly Report & Invoicing	ALL	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		\$10,469	\$10,469	75	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0
2.2 Utility Coordination																				
Statement Preparation	FXSA	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subsurface Utility Investigation	FXSA	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Utility Design (Final party) Coordination	MCI	\$0	\$0	-	-	-	-	-</												

ATTACHMENT B

[illegible]

# ATTACHMENT B

City of El Paso  
Sun Metro Alameda BRT  
Price Proposal for Design Services  
CDA

		OH Fee Billing Multiplier	Raw Rate Billable Rate	\$120	\$98	\$60	\$35	Direct Expenses	TOTAL Subcontracted Cost
			Price	Labor Price	Total Hours	Principal	Project Manager	CADD Operator	Clerical
<b>Preliminary Design Phase</b>									
1.1 Project Management									
Scoping Meeting - Corridor Review	ALL		\$0	\$0	0				
Design Kick-off Meeting	ALL		\$872	\$872	8	4	4	0	0
Monthly Progress Meetings (6 Ea)	ALL		\$1,386	\$1,386	18		12	0	6
Agency Coordination	ALL		\$1,386	\$1,386	18		12	0	6
Inter discipline coordination & QA/QC	ALL		\$1,176	\$1,176	12		12	0	0
Weekly/Stakeholder Meetings (24 Ea)	ALL		\$0	\$0	0				
Staff Assignments and Supervision	ALL		\$0	\$0	0				
Monthly Report & Invoicing	ALL		\$0	\$0	0				
			\$4,820	\$4,820	66	4	40	-	12
									\$0
1.2 Investigation									
Topographic Survey & Base Maps	FXSA		\$0	\$0	0				
ROW Determination	FXSA		\$0	\$0	0				
Subsurface Utility Investigation	FXSA		\$0	\$0	0				
Traffic Signals Inventory	LAN		\$0	\$0	0				
Gap Sidewalk Inventory	LAN		\$0	\$0	0				
Irrigation Research/Inventory (18 sites)	SSW		\$0	\$0	0				
Traffic Counts	LAN		\$0	\$0	0				
Warrant Analysis	LAN		\$0	\$0	0				
Geotechnical Investigation	COC		\$0	\$0	0				
Site Visit(s)	ALL		\$0	\$0	0				
Data Collection	ALL		\$0	\$0	0				
			\$0	\$0	-	-	-	-	\$0
									\$0
1.3 Geometrics Planning									
Lane Configurations	LAN		\$0	\$0	0				
Station Layout	LAN		\$0	\$0	0				
Proposed Signal Improvements	LAN		\$0	\$0	0				
VISSIM Modeling	LAN		\$0	\$0	0				
Warrant Analysis	SSW/LAN		\$0	\$0	0				
Parkway Improvement Concepts	LAN		\$0	\$0	0				
Construction Sequencing Plan	LAN		\$0	\$0	0				
Cost Estimates	LAN		\$0	\$0	0	0	0	0	0
			\$0	\$0	-	-	-	-	\$0
									\$0
1.4 Utility & Drainage									
Utility Information Collection	MCI		\$0	\$0	0				
Utility Layouts (using survey as base map)	MCI		\$0	\$0	0				
Identify Utility Conflicts	MCI		\$0	\$0	0				
Drainage Analysis (Station Area Locations)	MCI/SSW		\$0	\$0	0				
Water Harvesting Opportunities	MCI		\$0	\$0	0				
Evaluate Storm Sewer Outfalls (within 1,000' of Stas.)	MCI		\$0	\$0	0				
Station Area Grading	MCI		\$0	\$0	0				
Pavement/Sidewalk/Curb Ramp Design @ Sta. & Int.	MCI/SSW		\$0	\$0	0				
Cost Estimates	MCI/SSW		\$0	\$0	0				
			\$0	\$0	-	-	-	-	\$0
									\$0
1.5 Stations Architecture									
Preliminary Canopy Concepts	CDA		\$23,512	\$18,512	236	32	64	140	0
Artist Color Renderings	CDA		\$6,910	\$0	0				\$6,910
Public Art Coordination	CDA		\$3,096	\$3,096	32	12	12	8	0
Cost Estimates	CDA		\$5,000	\$0	0				\$5,000
			\$38,518	\$21,608	268	44	76	148	0
									\$16,910
									\$0
1.6 Stations MEP & Foundation									
Illumination Standards	LAN		\$0	\$0	0				
Plumbing Concepts	LAN		\$0	\$0	0				
Foundation Concepts	LAN		\$0	\$0	0				
Cost Estimates	LAN		\$0	\$0	0	0	0	0	0
			\$0	\$0	-	-	-	-	\$0
									\$0
1.7 Landscaping & Irrigation									
Preliminary Concepts	SSW		\$0	\$0	0				
Streetscape Furniture Concepts	SSW		\$0	\$0	0				
Cost Estimates	SSW		\$0	\$0	0	0	0	0	0
			\$0	\$0	-	-	-	-	\$0
									\$0
1.8 Systems - Concepts									
Internal Coord Meeting at LTK Chicago	LTK		\$0	\$0	0				
Prepare for Comm and Fare Workshop	LTK		\$0	\$0	0				
Fare Collection Workshop	LTK		\$0	\$0	0				
Comm Workshop	LTK		\$0	\$0	0				
Prepare Alternative White Paper - comm and fare	LTK		\$0	\$0	0				
Coord and QA Regarding Alt White Paper	LTK		\$0	\$0	0				
Prepare for Design Basis Meeting with Agency	LTK		\$0	\$0	0				
Fare Collection Design Basis Meeting	LTK		\$0	\$0	0				
Comm Design Basis Meeting	LTK		\$0	\$0	0				
Prepare Design Basis Memo (DBM) - comm and fare	LTK		\$0	\$0	0				
Coord and QA Regarding DBM	LTK		\$0	\$0	0				
Cost Estimates	LTK		\$0	\$0	0	0	0	0	0
			\$0	\$0	-	-	-	-	\$0
									\$0
1.9 Public Outreach									
Plan Preparation for City coordination	LAN		\$0	\$0	0				
Presentation Materials	LAN		\$0	\$0	0				
Attendance at Public Meetings (6 Ea)	MCI/LAN		\$0	\$0	0				
Public Meetings - Generate Meeting records (6 Ea)	LAN		\$0	\$0	0	0	0	0	0
			\$0	\$0	-	-	-	-	\$0
									\$0
<b>Final Design Phase</b>									
2.1 Project Management									
Comment Resolution from PE	ALL		\$632	\$632	6	2	4	0	0
Monthly Progress Meeting (3 Ea)	ALL		\$1,626	\$1,626	20	2	12	0	6
Design Coordination & QA/QC	ALL		\$2,244	\$2,244	22	4	18	0	0
Construction Sequencing Plan	LAN		\$0	\$0	0				
Construction Schedule	LAN		\$0	\$0	0				
Weekly/Stakeholder Meetings (12 Ea)	ALL		\$0	\$0	0				
Staff Assignments and Supervision	ALL		\$0	\$0	0				
Monthly Report & Invoicing	ALL		\$0	\$0	0				
			\$4,502	\$4,502	48	8	34	0	6
									\$0
2.2 Utility Coordination									
Easement Preparation	FXSA		\$0	\$0	0				
Subsurface Utility Investigation	FXSA		\$0	\$0	0				
Utility Design (Third party) Coordination	MCI		\$0	\$0	0	0	0	0	0
			\$0	\$0	-	-	-	-	\$0
									\$0
2.3 Traffic Signals & Lane Configuration									
Fixed Signage & Striping Plans	LAN		\$0	\$0	0				
Traffic Signal Design	LAN		\$0	\$0	0				

# ATTACHMENT B

City of El Paso Sun Metro Alameda BRT Price Proposal for Design Services CDA										
		OH Fee Billing Multiplier		Raw Rate Billable Rate		\$120	\$98	\$60	\$35	TOTAL Subcontracted Cost
		Price	Labor Price	Total Hours	Principal	Project Manager	CADD Operator	Clerical	Direct Expenses	
Signal Timing Plans	LAN	\$0	\$0	0						
Traffic & Pedestrian Control Plan	LAN	\$0	\$0	0						
DRAFT Specifications	LAN	\$0	\$0	0						
Cost Estimates	LAN	\$0	\$0	0					\$0	\$0
2.4 Civil / Drainage Design										
Stormwater P&P Sheets	MCI	\$0	\$0	0						
Detention/Ponding Area Design	MCI	\$0	\$0	0						
Station area grading	MCI	\$0	\$0	0						
Pavement/Sidewalk/Curb Ramp Design @ Sta. & Int.	MCI	\$0	\$0	0						
SWPPP Preparation	MCI	\$0	\$0	0						
DRAFT Specifications	MCI	\$0	\$0	0						
Cost Estimates	MCI	\$0	\$0	0					\$0	\$0
2.5 Stations - Architect										
Architecture Drawings	CDA	\$8,896	\$8,896	120	8	32	80	0		
Cost Estimates	CDA	\$3,600	\$0	0					3500	
DRAFT Specifications	CDA	\$1,800	\$1,800	32	8	0	0	24		
Artist Color Renderings	CDA	\$6,959	\$0	0					6959	
Public Art Coordination	CDA	\$4,272	\$4,272	48	8	24	16	0		
		\$25,427	\$14,968	200	24	56	96	24	\$10,459	\$0
2.6 Station - MEP & Foundation										
MEP Design Drawings	LAN	\$0	\$0	0						
Foundation Design Drawings	LAN	\$0	\$0	0						
Cost Estimates	LAN	\$0	\$0	0						
DRAFT Specifications	LAN	\$0	\$0	0					\$0	\$0
2.7 Landscaping & Irrigation										
Landscaping Plans	SSW	\$0	\$0	0						
Irrigation System Design	SSW	\$0	\$0	0						
Streetscape Furniture Plans	SSW	\$0	\$0	0						
Parkway improvement features	SSW	\$0	\$0	0						
Cost Estimates	SSW	\$0	\$0	0						
DRAFT Specifications	SSW	\$0	\$0	0					\$0	\$0
2.8 ITS Design										
Vehicle Procurement Coordination	LTK	\$0	\$0	0						
Automated Vehicle location System	LTK	\$0	\$0	0						
Fare Collection System	LTK	\$0	\$0	0						
Variable Message Signage	LTK	\$0	\$0	0						
Surveillance Video System	LTK	\$0	\$0	0						
WiFi Hotspots	LTK	\$0	\$0	0						
Traffic Signal Fiber Communication	LTK/LAN	\$0	\$0	0						
Cost Estimates	LTK	\$0	\$0	0						
DRAFT Specifications	LTK	\$0	\$0	0						
		\$0	\$0	0	0	0	0	0	\$0	\$0
Grand Design Total										
		\$25,427	\$14,968	200	24	56	96	24	\$10,459	\$0
3.1 Project Management										
Comment Resolution from PFE	ALL	\$1,024	\$1,024	10	2	8	0	0		
Monthly Progress Meeting (2 Ea)	ALL	\$1,416	\$1,416	14	2	12	0	0		
Design Coordination & QA/QC	ALL	\$2,832	\$2,832	28	4	24	0	0		
Weekly/Stakeholder Meetings (6 Ea)	ALL	\$0	\$0	0						
Staff Assignments and Supervision	ALL	\$0	\$0	0						
Monthly Report & Invoicing	ALL	\$0	\$0	0						
		\$5,272	\$5,272	52	8	44	0	0	\$0	\$0
3.2 Utility Coordination										
Easement Preparation	FXSA	\$0	\$0	0						
Subsurface Utility Investigation	FXSA	\$0	\$0	0						
Utility Adjustment Design (Third party) Coordination	MCI	\$0	\$0	0						
		\$0	\$0	0	0	0	0	0	\$0	\$0
3.3 Traffic Signals & Lane Configuration										
Fixed Signage & Striping Plans	LAN	\$0	\$0	0						
Traffic Signal Design	LAN	\$0	\$0	0						
Specifications	LAN	\$0	\$0	0						
Cost Estimates	LAN	\$0	\$0	0					\$0	\$0
3.4 Civil / Drainage Design										
Stormwater P&P Sheets	MCI	\$0	\$0	0						
Detention/Ponding Area Design	MCI	\$0	\$0	0						
Station area grading plans	MCI	\$0	\$0	0						
Pavement/Sidewalk/Curb Ramp Design @ Sta. & Int.	MCI	\$0	\$0	0						
SWPPP Preparation	MCI	\$0	\$0	0						
ADA/TDLR Review (Design)	FoA/MCI	\$0	\$0	0						
Specifications	MCI	\$0	\$0	0						
Cost Estimates	MCI	\$0	\$0	0					\$0	\$0
3.5 Stations - Architect										
Architecture Drawings	CDA	\$23,720	\$23,720	316	16	100	200	0		
Cost Estimates	CDA	\$5,000	\$0	0					5000	
Specifications	CDA	\$3,306	\$3,306	52	16	2	0	34		
Artist Color Renderings	CDA	\$4,721	\$0	0					4721	
Public Art Coordination & Incorporation	CDA	\$1,656	\$1,656	16	4	12	0	0		
Building Permit Process	CDA	\$4,868	\$4,868	56	4	36	12	1		
		\$43,771	\$33,550	440	40	150	212	38	\$9,721	\$0
3.6 Station - MEP & Foundation										
MEP Design	LAN	\$0	\$0	0						
Foundation Design	LAN	\$0	\$0	0						
Cost Estimates	LAN	\$0	\$0	0						
Specifications	LAN	\$0	\$0	0					\$0	\$0
3.7 Landscaping & Irrigation										
Landscaping Plans	SSW	\$0	\$0	0						
Irrigation System Design	SSW	\$0	\$0	0						
Streetscape Furniture Plans	SSW	\$0	\$0	0						
Parkway improvement features	SSW	\$0	\$0	0						
Cost Estimates	SSW	\$0	\$0	0						
Specifications	SSW	\$0	\$0	0					\$0	\$0
3.8 ITS Design										
Vehicle Procurement Coordination	LTK	\$0	\$0	0						

# ATTACHMENT B

City of El Paso  
Sun Metro Alameda BRT  
Price Proposal for Design Services  
CDA

		OH Fee Billing Multiplier		Raw Rate							TOTAL	
		Billable Rate		\$120	\$98	\$60	\$35	Direct Expenses	Subcontracted Cost			
		Price	Labor Price	Total Hours	Principal	Project Manager	CADD Operator			Clerical		
Automated Vehicle Location System	LTK	\$0	\$0	0								
Fare Collection System	LTK	\$0	\$0	0								
Variable Message Signage	LTK	\$0	\$0	0								
Surveillance Video System	LTK	\$0	\$0	0								
WiFi Hotspots	LTK	\$0	\$0	0								
Traffic Signal Fiber Communication	LTK/LAN	\$0	\$0	0								
Cost Estimates	LTK	\$0	\$0	0								
Specifications	LTK	\$0	\$0	0								
		\$0	\$0	0	0	0	0	0	\$0		\$0	
Bidding/Construction Phase												
4.1 Bidding Assistance												
Attend Pre-Bid Conference	ALL	\$872	\$872	8	4	4	0	0				
Respond to queries from prospective bidders	ALL	\$3,012	\$3,012	38	2	24	0	12				
Contract Documents Revision	ALL	\$0	\$0	0								
Prepare Addenda	ALL	\$3,488	\$3,488	44	4	16	24					
Evaluate Bids & provide recommendation to the City	LAN	\$0	\$0	0								
		\$7,372	\$7,372	90	10	44	24	12	\$0		\$0	
4.2 Construction Phase Services												
Review of Shop drawings & submittals	ALL	\$3,312	\$3,312	32	8	24	0	0				
Responses to RFI	ALL	\$5,616	\$5,616	72	8	32	16	16				
Conduct monthly Site Visits and prepare reports	ALL	\$7,200	\$7,200	92	0	60	8	24				
Construction Change Orders Review	LAN	\$0	\$0	0								
Pay Estimate Review	LAN	\$0	\$0	0								
Commissioning and Start-up of systems	LTK/LAN	\$244	\$0	0							244	
Substantial Completion walk through	ALL	\$1,848	\$1,848	24	0	16	0	8				
Punch list preparation	ALL	\$842	\$842	12	2	4	0	6				
Prepare "As-Built" drawings	ALL	\$2,836	\$2,836	44	2	2	40	0				
Signal Timing Plans	LAN	\$0	\$0	0								
		\$21,898	\$21,654	276	20	138	64	54	\$0		\$244	
Total Estimated Cost												
		\$151,080	\$113,746	1,430	158	582	544	146	\$37,090			

			Raw Rate	\$65	\$39	\$27	\$19	\$18			TOTAL
			Billable Rate	\$210	\$126	\$87	\$61	\$58			Subcontracted Cost
Preliminary Design Phase											
1.1 Project Management											
Scoping Meeting - Corridor Review	ALL	\$0	\$0								\$0
Design Kick-off Meeting	ALL	\$1,505	\$1,462	10	4	4			2		\$44
Monthly Progress Meetings (6 Ea)	ALL	\$4,157	\$4,036	24	12	12					\$121
Agency Coordination	ALL	\$3,184	\$3,091	24	4	16			4		\$93
Inter discipline coordination & QA/QC	ALL	\$4,050	\$3,932	28	8	16			4		\$118
Weekly/Stakeholder Meetings (16 Ea)	ALL	\$4,157	\$4,036	32		32					\$121
Staff Assignments and Supervision	ALL	\$866	\$841		4						\$25
Monthly Report & Invoicing	ALL	\$2,088	\$2,028	36	3				24		\$61
		\$20,007	\$19,426	164	35	80			34		\$583
1.2 Investigation											
Topographic Survey & Base Maps	FXSA	\$0	\$0	0							
ROW Determination	FXSA	\$0	\$0	0							
Subsurface Utility Investigation	FXSA	\$0	\$0	0							
Traffic Signals Inventory	LAN	\$0	\$0	0							
Gap Sidewalk Inventory	LAN	\$0	\$0	0							
Traffic Counts	LAN										
Warrant Analysis	LAN	\$0	\$0	0							
Geotechnical Investigation	CQC	\$0	\$0	0							
Site Visit(s)	ALL	\$5,103	\$4,854	44	4	16	24				\$149
Data Collection	ALL	\$3,437	\$3,337	36	0	8	24		4		\$100
		\$8,540	\$8,291	80	4	24	48		4		\$249
1.3 Geometrics Planning											
Lane Configurations	LAH	\$0	\$0	0							
Station Layout	LAN	\$0	\$0	0							
Proposed Signal Improvements	LAN	\$0	\$0	0							
VISSIM Modeling	LAN	\$0	\$0	0							
Warrant Analysis	LAN	\$0	\$0	0							
Parkway Improvement Concepts	SSW/LAN	\$0	\$0	0							
Construction Sequencing Plan	LAN	\$0	\$0	0							
Cost Estimates	LAN	\$0	\$0	0							
		\$0	\$0	0	0	0	0	0	0	0	\$0
1.4 Utility & Drainage											
Utility Information Collection	MCI	\$5,809	\$5,640	76		4	28	40	4		\$169
Utility Layouts (using survey as basemap)	MCI	\$6,661	\$6,467	96		4	12	80			\$194
Identify Utility Conflicts	MCI	\$5,755	\$5,589	56		24	24		8		\$168
Drainage Analysis (Station Area Locations)	MCI	\$13,323	\$12,935	152		24	80	40	8		\$388
Water Harvesting Opportunities	MCI	\$0	\$0	0							\$0
Evaluate Storm Sewer Outfalls (within 1,000' of Stas.)	MCI	\$9,819	\$9,533	100	4	24	48	24			\$206
Station Area Grading	MCI	\$15,574	\$15,121	204		24	40	140			\$454
Pavement/Sidewalk/Curb Ramp Design @ Sta. & Int.	MCI	\$15,574	\$15,121	204		24	40	140			\$454
Cost Estimates	MCI	\$7,114	\$6,907	88		12	28	48			\$207
		\$75,630	\$77,311	976	4	140	300	\$12	20		\$2,319
1.5 Stations Architecture											
Preliminary Canopy Concepts	CDA	\$0	\$0	0							
Artist Color Renderings	CDA	\$0	\$0	0							
Public Art Coordination	CDA	\$0	\$0	0							
Cost Estimates	CDA	\$0	\$0	0							
		\$0	\$0	0	0	0	0	0	0	\$0	\$0
1.6 Stations MEP & Foundation											
Illumination Standards	LAN	\$0	\$0	0							
Plumbing Concepts	LAN	\$0	\$0	0							
Foundation Concepts	LAN	\$0	\$0	0							
Cost Estimates	LAN	\$0	\$0	0							
		\$0	\$0	0	0	0	0	0	0	\$0	\$0
1.7 Landscaping & Imigation											
Preliminary Concepts	SSW	\$0	\$0	0							
Streetscapse Furniture Concepts	SSW	\$0	\$0	0							
Cost Estimates	SSW	\$0	\$0	0							
		\$0	\$0	0	0	0	0	0	0	\$0	\$0
1.8 Systems - Concepts											
Internal Coor Meeing at LTK Chicago	LTK	\$0	\$0	0							
Prepare for Comm and Fair Workshop	LTK	\$0	\$0	0							
Fare Collection Workshop	LTK	\$0	\$0	0							
Comm Workshop	LTK	\$0	\$0	0							
Prepare Alternative White Paper -comm and fare	LTK	\$0	\$0	0							
Coor and Q&A Regarding Alt White Paper	LTK	\$0	\$0	0							
Prepara for Design Basis Meeting with Agency	LTK	\$0	\$0	0							
Fare Collection Design Basis Meeting	LTK	\$0	\$0	0							
Comm Design Basis Meeting	LTK	\$0	\$0	0							
Prepare Design Basis Memo (DBM) - comm and fare	LTK	\$0	\$0	0							
Coor and Q&A Regarding DBM	LTK	\$0	\$0	0							
Cost Estimates	LTK	\$0	\$0	0							
		\$0	\$0	0	0	0	0	0	0	\$0	\$0
1.9 Public Outreach											
Plan Preparation for City coordination	LAN	\$0	\$0	0							
Presentation Materials	LAN	\$0	\$0	0							
Attendance at Public Meetings (6 Ea)	MCI/LAN	\$6,217	\$5,989	52	12	16		16	8		\$228
Public Meetings - Generate Meeting records (6 Ea)	LAN	\$0	\$0	0							
		\$6,217	\$5,989	52	12	16	0	16	8		\$228
Grand Totals											
2.1 Project Management											
Comment Resolution from PIE	ALL	\$3,184	\$3,091	24	4	16			4		\$93
Monthly Progress Meeting (3 Ea)	ALL	\$2,468	\$2,395	15	6	9					\$72
Design Coordination & QA/QC	ALL	\$4,676	\$4,540	28	12	16					\$136
Construction Sequencing Plan	LAN	\$0	\$0	0							\$0
Construction Schedule	LAN	\$0	\$0	0							\$0
Weekly/Stakeholder Meetings (9 Ea)	ALL	\$2,078	\$2,016	16		16					\$61
Staff Assignments and Supervision	ALL	\$433	\$420	2	2						\$13
Monthly Report & Invoicing	ALL	\$2,305	\$2,238	28	4				24		\$67
		\$15,145	\$14,704	113	28	57	0	0	28		\$441
2.2 Utility Coordination											
Easement Preparation	FXSA	\$0	\$0	0							
Subsurface Utility Investigation	FXSA	\$0	\$0	0							
Utility Design (Third party) Coordination	MCI	\$7,068	\$6,852	68	6	28		28	6		\$206
		\$7,068	\$6,852	68	6	28	0	28	6		\$206
2.3 Traffic Signals & Lane Configuration											
Fixed Signage & Striping Plans	LAN	\$0	\$0	0							
Traffic Signal Design	LAN	\$0	\$0	0							
Signal Timing Plans	LAN	\$0	\$0	0							
Traffic & Pedestrian Control Plan	LAN	\$0	\$0	0							
DBART Specifications	LAN	\$0	\$0	0							
Cost Estimates	LAN	\$0	\$0	0							
		\$0	\$0	0	0	0	0	0	0	\$0	\$0
2.4 Civil / Drainage Design											





# ATTACHMENT B

City of El Paso		Payroll OH 58%									
Sun Metro Alameda BRT		GSA OH 123%									
Price Proposal for Design Services		Fee 15.000%									
MCI		Billing Multiplier 3.23									
		Raw Rate		\$65	\$39	\$27	\$19	\$18			
		Billable Rate		\$210	\$126	\$87	\$61	\$58			
		Price	Labor Price	Total Hours	Sr Prof	Eng / Prof	Jr Eng / Jr Prof	Tech / CADD	Admin	Direct Expenses	TOTAL Subcontracted Cost
4.1 Bidding Assistance											
Attend Pro-Bid Conference	ALL	\$953	\$925	6	2	4					\$28
Respond to queries from prospective bidders	ALL	\$2,751	\$2,671	22	2	16			4		\$80
Contract Documents Revision	ALL	\$0	\$0	0							\$0
Prepare Addenda	ALL	\$3,497	\$3,395	38	2	12		20	4		\$102
Evaluate Bids & provide recommendation to the City	LAN	\$0	\$0	0							\$0
		\$7,201	\$6,991	66	6	32	0	20	8		\$210
4.2 Construction Phase Services											
Review of Shop drawings & submittals	ALL	\$9,547	\$9,679	100	4	16	40		40		\$868
Responses to RFI	ALL	\$8,366	\$7,606	72			24		8		\$761
Conduct monthly Site Visits and prepare reports	ALL	\$13,889	\$12,728	132			80		12		\$1,161
Construction Change Orders Review	LAN	\$1,665	\$1,513	12		12					\$151
Pay Estimate Review	LAN	\$0	\$0	0							\$0
Commissioning and Start-up of systems	LTK/LAN	\$0	\$0	0							\$0
Substantial Completion walk through	ALL	\$1,878	\$1,707	16		8	8				\$171
Punch list preparation	ALL	\$1,046	\$951	10		2	8				\$95
Prepare "As-Built" drawings	ALL	\$1,878	\$1,707	16		8	8				\$171
Signal Timing Plans	LAN	\$7,071	\$6,429	92		12		80			\$643
		\$45,340	\$41,320	450	4	138	168	80	60		\$4,020
Total Estimated Cost		\$297,140	\$285,861	3,750	133	742	752	1,390	228	\$11,279	

City of El Paso  
Sun Metro Alameda BRT  
Price Proposal for Design Services  
CQC

[illegible]

City of El Paso Sun Metro Alameda BRT Price Proposal for Design Services CQC															
						OH Fee	142.00% 10.000%								
						Billing Multiplier	2.08								
						Raw Rate	\$37.00	\$23.00	\$11.00	\$14.59	\$29.00	\$15.00			
						Billable Rate	\$98.49	\$61.23	\$29.28	\$38.89	\$77.20	\$39.93			
						Total Hours							Direct Expenses	TOTAL Subcontracted Cost	
DRAFT Specifications	MCI	\$0	\$0	0											
Cost Estimates	MCI	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0		
2.5 Stations - Architect															
Architecture Drawings	CDA	\$0	\$0	0											
Cost Estimates	CDA	\$0	\$0	0											
DRAFT Specifications	CDA	\$0	\$0	0											
Artist Color Renderings	CDA	\$0	\$0	0											
Public Art Coordination	CDA	\$0	\$0	0											
2.6 Station - MEP & Foundation															
MEP Design Drawings	LAFI	\$0	\$0	0											
Foundation Design Drawings	LAFI	\$0	\$0	0											
Cost Estimates	LAFI	\$0	\$0	0											
DRAFT Specifications	LAFI	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0		
2.7 Landscaping & Irrigation															
Landscaping Plans	SSW	\$0	\$0	0											
Irrigation System Design	SSW	\$0	\$0	0											
Streetscape Furniture Plans	SSW	\$0	\$0	0											
Parkway Improvement features	SSW	\$0	\$0	0											
Cost Estimates	SSW	\$0	\$0	0											
DRAFT Specifications	SSW	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0		
2.8 ITS Design															
Vehicle Procurement Coordination	LTK	\$0	\$0	0											
Automated Vehicle location System	LTK	\$0	\$0	0											
Fare Collection System	LTK	\$0	\$0	0											
Variable Message Signage	LTK	\$0	\$0	0											
Surveillance Video System	LTK	\$0	\$0	0											
WiFi Hotspots	LTK/LAN	\$0	\$0	0											
Traffic Signal Fiber Communication	LTK	\$0	\$0	0											
Cost Estimates	LTK	\$0	\$0	0											
DRAFT Specifications	LTK	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0		
GRAND TOTAL DESIGN SERVICES															
3.0 GRAND TOTAL DESIGN SERVICES															
3.1 Project Management															
Comment Resolution from PFE	ALL	\$0	\$0	0											
Monthly Progress Meeting (2 Ea)	ALL	\$0	\$0	0											
Design Coordination & QA/QC	ALL	\$0	\$0	0											
Weekly/Stakeholder Meetings (6 Ea)	ALL	\$0	\$0	0											
Staff Assignments and Supervision	ALL	\$0	\$0	0											
Monthly Report & Invoicing	ALL	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0		
3.2 Utility Coordination															
Examination Preparation	FXSA	\$0	\$0	0											
Subsurface Utility Investigation	FXSA	\$0	\$0	0											
Utility Adjustment Design (Third party) Coordination	MCI	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0		
3.3 Traffic Signals & Lane Configuration															
Fixed Signage & Striping Plans	LAN	\$0	\$0	0											
Traffic Signal Design	LAN	\$0	\$0	0											
Specifications	LAN	\$0	\$0	0											
Cost Estimates	LAN	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0		
3.4 Civil / Drainage Design															
Stormwater P&P Sheets	MCI	\$0	\$0	0											
Detention/Ponding Area Design	MCI	\$0	\$0	0											
Station area grading plans	MCI	\$0	\$0	0											
Pavement/Sidewalk/Curb Ramp Design @ Sta. & Int.	MCI	\$0	\$0	0											
SWPPP Preparation	MCI	\$0	\$0	0											
ADA/TDLR Review (Design)	FoA/MCI	\$0	\$0	0											
Specifications	MCI	\$0	\$0	0											
Cost Estimates	MCI	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0		
3.5 Stations - Architect															
Architecture Drawings	CDA	\$0	\$0	0											
Cost Estimates	CDA	\$0	\$0	0											
Specifications	CDA	\$0	\$0	0											
Artist Color Renderings	CDA	\$0	\$0	0											
Public Art Coordination & Incorporation	CDA	\$0	\$0	0											
Building Permit Process	CDA	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0		
3.6 Station - MEP & Foundation															
MEP Design	LAN	\$0	\$0	0											
Foundation Design	LAN	\$0	\$0	0											
Cost Estimates	LAN	\$0	\$0	0											
Specifications	LAN	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0		
3.7 Landscaping & Irrigation															
Landscaping Plans	SSW	\$0	\$0	0											
Irrigation System Design	SSW	\$0	\$0	0											
Streetscape Furniture Plans	SSW	\$0	\$0	0											
Parkway Improvement features	SSW	\$0	\$0	0											
Cost Estimates	SSW	\$0	\$0	0											
Specifications	SSW	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0		
3.8 ITS Design															
Vehicle Procurement Coordination	LTK	\$0	\$0	0											
Automated Vehicle location System	LTK	\$0	\$0	0											
Fare Collection System	LTK	\$0	\$0	0											
Variable Message Signage	LTK	\$													

# ATTACHMENT B

City of El Paso Sun Metro Alameda BRT Price Proposal for Design Services CQC											
		Off	142.00%								
		Fee	10.000%								
		Billing Multiplier	2.65								
		Raw Rate	\$37.00	\$23.00	\$11.00	\$14.50	\$29.00	\$15.00			
		Billable Rate	\$98.49	\$61.23	\$29.26	\$38.60	\$77.20	\$39.93			
		Total									TOTAL
		Price	Labor Price	Hours				Direct			
								Expenses			
Conduct monthly Site Visits and prepare reports	ALL	\$0	\$0	0							
Construction Change Orders Review	LAN	\$0	\$0	0							
Pay Estimate Review	LAN	\$0	\$0	0							
Commissioning and Start-up of systems	LTK/LAN	\$0	\$0	0							
Substantial Completion walk through	ALL	\$0	\$0	0							
Punch list preparation	ALL	\$0	\$0	0							
Prepare "As-Built" drawings	ALL	\$0	\$0	0							
Signal Timing Plans	LAN	\$0	\$0	0							
		\$0	\$0	0	0	0	0	0	0	0	\$0
Total Estimated Cost		\$44,834	\$13,137	214	7	110	37	62	35	3	\$31,697

# ATTACHMENT B

## City of El Paso Sun Metro Alameda BRT Price Proposal for Design Services FXSA

		Price	Billable Rate	Total Hours	2-Man Crew	3-Man Crew	GPS	Survey Yach	CAD I	RPLS	Direct Expenses	TOTAL Subcontracted Cost
<b>1.0 Preliminary Design</b>												
<b>1.1 Project Management</b>												
Scoping Meeting - Corridor Review	ALL	\$0	\$0	0								
Design Kick-off Meeting	ALL	\$0	\$0	0								
Monthly Progress Meetings (6 Ea)	ALL	\$0	\$0	0								
Agency Coordination	ALL	\$0	\$0	0								
Inter discipline coordination & QA/QC	ALL	\$0	\$0	0								
Weekly/Stakeholder Meetings (24 Ea)	ALL	\$0	\$0	0								
Staff Assignments and Supervision	ALL	\$0	\$0	0								
Monthly Report & Invoicing	ALL	\$0	\$0	0								
		\$0	\$0								\$0	\$0
<b>1.2 Investigation</b>												
Topographic Survey & Base Maps	FXSA	\$130,380	\$122,766	1,271	120	497	81	30	528	15	\$7,014	
ROW Determination	FXSA	\$19,620	\$19,620	195				60		135		
Subsurface Utility Investigation	FXSA	\$0	\$0	0				60		30		
Traffic Signals Inventory	LAN	\$0	\$0	0								
Gap Sidewalk Inventory	LAN	\$0	\$0	0								
Irrigation Research/Inventory (18 sites)	SSW	\$0	\$0	0								
Traffic Counts	LAN	\$0	\$0	0								
Warrent Analysis	LAN	\$0	\$0	0								
Geotechnical Investigation	COC	\$0	\$0	0								
Site Visit(s)	ALL	\$0	\$0	0								
Data Collection	ALL	\$0	\$0	0								
		\$150,000	\$142,386	1,556	120	497	81	150	528	180	\$7,014	\$0
<b>1.3 Geometrics Planning</b>												
Lane Configurations	LAN	\$0	\$0	0	12,560	67,095	14,175	9,900	24,816	20,800	\$7,014	
Station Layout	LAN	\$0	\$0	0								
Proposed Signal Improvements	LAN	\$0	\$0	0								
VISSIM Modeling	LAN	\$0	\$0	0								
Warrent Analysis	LAN	\$0	\$0	0								
Parkway Improvement Concepts	SSW/LAN	\$0	\$0	0								
Construction Sequencing Plan	LAN	\$0	\$0	0								
Cost Estimates	LAN	\$0	\$0	0								
		\$0	\$0	0							0	\$0
<b>1.4 Utility &amp; Drainage</b>												
Utility Information Collection	MCI	\$0	\$0	0								
Utility Layouts (using survey as basemap)	MCI	\$0	\$0	0								
Identify Utility Conflicts	MCI	\$0	\$0	0								
Drainage Analysis (Station Area Locations)	MCI	\$0	\$0	0								
Water Harvesting Opportunities	MCI/SSW	\$0	\$0	0								
Evaluate Storm Sewer Outfalls (within 1,000' of Stas.)	MCI	\$0	\$0	0								
Station Area Grading	MCI	\$0	\$0	0								
Pavement/Sidewalk/Curb Ramp Design @ Sta. & Int.	MCI	\$0	\$0	0								
Cost Estimates	MCI/SSW	\$0	\$0	0								
		\$0	\$0	0							\$0	\$0
<b>1.5 Stations Architecture</b>												
Preliminary Canopy Concepts	CDA	\$0	\$0	0								
Artist Color Renderings	CDA	\$0	\$0	0								
Public Art Coordination	CDA	\$0	\$0	0								
Cost Estimates	CDA	\$0	\$0	0								
		\$0	\$0	0							\$0	\$0
<b>1.6 Stations MEP &amp; Foundation</b>												
Illumination Standards	LAN	\$0	\$0	0								
Plumbing Concepts	LAN	\$0	\$0	0								
Foundation Concepts	LAN	\$0	\$0	0								
Cost Estimates	LAN	\$0	\$0	0								
		\$0	\$0	0							\$0	\$0
<b>1.7 Landscaping &amp; Irrigation</b>												
Preliminary Concepts	SSW	\$0	\$0	0								
Streetscape Furniture Concepts	SSW	\$0	\$0	0								
Cost Estimates	SSW	\$0	\$0	0								
		\$0	\$0	0							\$0	\$0
<b>1.8 Systems - Concepts</b>												
Internal Coord Meeting at LTK Chicago	LTK	\$0	\$0	0								
Prepare for Comm and Fare Workshop	LTK	\$0	\$0	0								
Fare Collection Workshop	LTK	\$0	\$0	0								
Comm Workshop	LTK	\$0	\$0	0								
Prepare Alternative White Paper - comm and fare	LTK	\$0	\$0	0								
Cost and Q&A Regarding Alt White Paper	LTK	\$0	\$0	0								
Prepare for Design Basis Meeting with Agency	LTK	\$0	\$0	0								
Fare Collection Design Basis Meeting	LTK	\$0	\$0	0								
Comm Design Basis Meeting	LTK	\$0	\$0	0								
Prepare Design Basis Memo (DBM) - comm and fare	LTK	\$0	\$0	0								
Coord Q&A Regarding DBM	LTK	\$0	\$0	0								
Cost Estimates	LTK	\$0	\$0	0								
		\$0	\$0	0							\$0	\$0
<b>1.9 Public Outreach</b>												
Plan Preparation for City coordination	LAN	\$0	\$0	0								
Presentation Materials	LAN	\$0	\$0	0								
Attendance at Public Meetings (6 Ea)	MCI/LAN	\$0	\$0	0								
Public Meetings - Generate Meeting records (6 Ea)	LAN	\$0	\$0	0								
		\$0	\$0	0							\$0	\$0
<b>2.0 Construction Documents</b>												
<b>2.1 Project Management</b>												
Consent Resolution from PE	ALL	\$0	\$0	0								
Monthly Progress Meeting (3 Ea)	ALL	\$0	\$0	0								
Design Coordination & QA/QC	ALL	\$0	\$0	0								
Construction Sequencing Plan	LAN	\$0	\$0	0								
Construction Schedule	LAN	\$0	\$0	0								
Weekly/Stakeholder Meetings (12 Ea)	ALL	\$0	\$0	0								
Staff Assignments and Supervision	ALL	\$0	\$0	0								
Monthly Report & Invoicing	ALL	\$0	\$0	0								
		\$0	\$0	0							\$0	\$0
<b>2.2 Utility Coordination</b>												
Encasement Preparation	FXSA	\$0	\$0	0								
Subsurface Utility Investigation	FXSA	\$0	\$0	0								
Utility Design (Third party) Coordination	MCI	\$0	\$0	0								
		\$0	\$0	0							\$0	\$0
<b>2.3 Traffic Signals &amp; Lane Configuration</b>												
Fixed Signage & Striping Plans	LAN	\$0	\$0	0								
Traffic Signal Design	LAN	\$0	\$0	0								
Signal Timing Plans	LAN	\$0	\$0	0								
Traffic & Pedestrian Control Plan	LAN	\$0	\$0	0								
DRAFT Specifications	LAN	\$0	\$0	0								
Cost Estimates	LAN	\$0	\$0	0								
		\$0	\$0	0							\$0	\$0
<b>2.4 Civil / Drainage Design</b>												
Stormwater P&P Sheets	MCI	\$0	\$0	0								
Detention/Ponding Area Design	MCI	\$0	\$0	0								
Station area grading	MCI	\$0	\$0	0								
Pavement/Sidewalk/Curb Ramp Design @ Sta. & Int.	MCI	\$0	\$0	0								
SWPPP Preparation	MCI	\$0	\$0	0								

# ATTACHMENT B

City of El Paso  
Sun Metro Alameda BRT  
Price Proposal for Design Services  
FXSA

		Price	Labor Price	Total Hours	2-Man Crew	3-Man Crew	GPS	Survey Tech	CAD I	RPLS	Direct Expenses	Subcontracted Cost
DRAFT Specifications	MCI	\$0	\$0	0								
Cost Estimates	MCI	\$0	\$0	0							\$0	\$0
<b>2.5 Stations - Architect</b>												
Architecture Drawings	CDA	\$0	\$0	0								
Cost Estimates	CDA	\$0	\$0	0								
DRAFT Specifications	CDA	\$0	\$0	0								
Artist Color Renderings	CDA	\$0	\$0	0								
Public Art Coordination	CDA	\$0	\$0	0							\$0	\$0
<b>2.6 Station - MEP &amp; Foundation</b>												
MEP Design Drawings	LAN	\$0	\$0	0								
Foundation Design Drawings	LAN	\$0	\$0	0								
Cost Estimates	LAN	\$0	\$0	0								
DRAFT Specifications	LAN	\$0	\$0	0							\$0	\$0
<b>2.7 Landscaping &amp; Irrigation</b>												
Landscaping Plans	SSW	\$0	\$0	0								
Irrigation System Design	SSW	\$0	\$0	0								
Streetscape Furniture Plans	SSW	\$0	\$0	0								
Parkway Improvement Features	SSW	\$0	\$0	0								
Cost Estimates	SSW	\$0	\$0	0								
DRAFT Specifications	SSW	\$0	\$0	0							\$0	\$0
<b>2.8 ITS Design</b>												
Vehicle Procurement Coordination	LTK	\$0	\$0	0								
Automated Vehicle location System	LTK	\$0	\$0	0								
Fare Collection System	LTK	\$0	\$0	0								
Variable Message Signage	LTK	\$0	\$0	0								
Surveillance Video System	LTK	\$0	\$0	0								
WiFi Hotspots	LTK	\$0	\$0	0								
Traffic Signal Fiber Communication	LTK/LAN	\$0	\$0	0								
Cost Estimates	LTK	\$0	\$0	0								
DRAFT Specifications	LTK	\$0	\$0	0							\$0	\$0
<b>3.1 Project Management</b>												
Comment Resolution from PFE	ALL	\$0	\$0	0								
Monthly Progress Meeting (2 Ea)	ALL	\$0	\$0	0								
Design Coordination & QA/QC	ALL	\$0	\$0	0								
Weekly/Stakeholder Meetings (6 Ea)	ALL	\$0	\$0	0								
Staff Assignments and Supervision	ALL	\$0	\$0	0								
Monthly Report & Invoicing	ALL	\$0	\$0	0							\$0	\$0
<b>3.2 Utility Coordination</b>												
Easement Preparation	FXSA	\$0	\$0	0								
Subsurface Utility Investigation	FXSA	\$0	\$0	0								
Utility Adjustment Design (Third party) Coordination	MCI	\$0	\$0	0							\$0	\$0
<b>3.3 Traffic Signals &amp; Lane Configuration</b>												
Fixed Signage & Striping Plans	LAN	\$0	\$0	0								
Traffic Signal Design	LAN	\$0	\$0	0								
Specifications	LAN	\$0	\$0	0								
Cost Estimates	LAN	\$0	\$0	0							\$0	\$0
<b>3.4 Civil / Drainage Design</b>												
Stormwater P&P Sheets	MCI	\$0	\$0	0								
Detention/Ponding Area Design	MCI	\$0	\$0	0								
Station area grading plans	MCI	\$0	\$0	0								
Pavement/Shoulder/Curb Ramp Design @ Sta. & Int.	MCI	\$0	\$0	0								
SWPPP Preparation	FXA/MCI	\$0	\$0	0								
ADA/ADLR Review (Design)	MCI	\$0	\$0	0								
Specifications	MCI	\$0	\$0	0								
Cost Estimates	MCI	\$0	\$0	0							\$0	\$0
<b>3.5 Stations - Architect</b>												
Architecture Drawings	CDA	\$0	\$0	0								
Cost Estimates	CDA	\$0	\$0	0								
Specifications	CDA	\$0	\$0	0								
Artist Color Renderings	CDA	\$0	\$0	0								
Public Art Coordination & Incorporation	CDA	\$0	\$0	0								
Building Permit Process	CDA	\$0	\$0	0							\$0	\$0
<b>3.6 Station - MEP &amp; Foundation</b>												
MEP Design	LAN	\$0	\$0	0								
Foundation Design	LAN	\$0	\$0	0								
Cost Estimates	LAN	\$0	\$0	0								
Specifications	LAN	\$0	\$0	0							\$0	\$0
<b>3.7 Landscaping &amp; Irrigation</b>												
Landscaping Plans	SSW	\$0	\$0	0								
Irrigation System Design	SSW	\$0	\$0	0								
Streetscape Furniture Plans	SSW	\$0	\$0	0								
Parkway Improvement Features	SSW	\$0	\$0	0								
Cost Estimates	SSW	\$0	\$0	0								
Specifications	SSW	\$0	\$0	0							\$0	\$0
<b>3.8 ITS Design</b>												
Vehicle Procurement Coordination	LTK	\$0	\$0	0								
Automated Vehicle location System	LTK	\$0	\$0	0								
Fare Collection System	LTK	\$0	\$0	0								
Variable Message Signage	LTK	\$0	\$0	0								
Surveillance Video System	LTK	\$0	\$0	0								
WiFi Hotspots	LTK	\$0	\$0	0								
Traffic Signal Fiber Communication	LTK/LAN	\$0	\$0	0								
Cost Estimates	LTK	\$0	\$0	0								
Specifications	LTK	\$0	\$0	0							\$0	\$0
<b>4.1 Bidding Assistance</b>												
Attend Pre-Bid Conference	ALL	\$0	\$0	0								
Respond to queries from prospective bidders	ALL	\$0	\$0	0								
Contract Documents Revision	ALL	\$0	\$0	0								
Prepare Addenda	ALL	\$0	\$0	0								
Evaluate Bids & provide recommendation to the City	LAN	\$0	\$0	0							\$0	\$0
<b>4.2 Construction Phase Services</b>												
Review of Shop drawings & submittals	ALL	\$0	\$0	0								
Responses to RFI	ALL	\$0	\$0	0								

# ATTACHMENT B

City of El Paso  
Sun Metro Alameda BRT  
Price Proposal for Design Services  
FXSA

			Billable Rate	\$108.00	\$135.00	\$175.00	\$60.00	\$47.00	\$116.00				TOTAL
			Price	Labor Price	Total Hours	2-Man Crew	3-Man Crew	GPS	Survey Tech	CAD I	RPLS	Direct Expenses	Subcontracted Cost
Conduct monthly Site Visits and prepare reports	ALL	\$0	\$0	0									
Construction Change Orders Review	LAN	\$0	\$0	0									
Pay Estimate Review	LAN	\$0	\$0	0									
Commissioning and Start-up of systems	LTIO/LAN	\$0	\$0	0									
Substantial Completion walk through	ALL	\$0	\$0	0									
Punch list preparation	ALL	\$0	\$0	0									
Prepare "As-Built" drawings	ALL	\$0	\$0	0									
Signal Timing Plans	LAN	\$0	\$0	0								\$0	\$0
Total Estimated Cost			\$150,000	\$142,386	1,556	120	497	81	150	528	100	\$7,614	



# ATTACHMENT B

City of El Paso  
Sun Metro Alameda BRT  
Price Proposal for Design Services  
Fokus

				\$0			
		Price	Labor Price	Total Hours	Direct Expenses	Subcontracted Cost	TOTAL
<b>1.0 Preliminary Design Phase</b>							
1.1 Project Management							
Scoping Meeting - Corridor Review	ALL	\$0	\$0	0	0		
Design Kick-off Meeting	ALL	\$0	\$0	0	0		
Monthly Progress Meetings (6 Ea)	ALL	\$0	\$0	0	0		
Agency Coordination	ALL	\$0	\$0	0	0		
Inter discipline coordination & QA/QC	ALL	\$0	\$0	0	0		
Weekly/Stakeholder Meetings (24 Ea)	ALL	\$0	\$0	0	0		
Staff Assignments and Supervision	ALL	\$0	\$0	0	0		
Monthly Report & Invoicing	ALL	\$0	\$0	0	0		
		\$0	\$0	-	-	\$0	\$0
1.2 Investigation							
Topographic Survey & Base Maps	FXSA	\$0	\$0	0	0		
ROW Determination	FXSA	\$0	\$0	0	0		
Subsurface Utility Investigation	FXSA	\$0	\$0	0	0		
Traffic Signals Inventory	LAN	\$0	\$0	0	0		
Gap Sidewalk Inventory	LAN	\$0	\$0	0	0		
Irrigation Research/Inventory (16 sites)	SSW	\$0	\$0	0	0		
Traffic Counts	LAN	\$0	\$0	0	0		
Warrant Analysis	LAN	\$0	\$0	0	0		
Geotechnical Investigation	CQC	\$0	\$0	0	0		
Site Visit(s)	ALL	\$0	\$0	0	0		
Data Collection	ALL	\$0	\$0	0	0		
		\$0	\$0	-	-	\$0	\$0
1.3 Geometrics Planning							
Lane Configurations	LAN	\$0	\$0	0	0		
Station Layout	LAN	\$0	\$0	0	0		
Proposed Signal Improvements	LAN	\$0	\$0	0	0		
VISSIM Modeling	LAN	\$0	\$0	0	0		
Warrant Analysis	LAN	\$0	\$0	0	0		
Parkway Improvement Concepts	SSW/LAN	\$0	\$0	0	0		
Construction Sequencing Plan	LAN	\$0	\$0	0	0		
Cost Estimates	LAN	\$0	\$0	0	0	0	\$0
		\$0	\$0	-	-	\$0	\$0
1.4 Utility & Drainage							
Utility Information Collection	MCI	\$0	\$0	0	0		
Utility Layouts (using survey as basemap)	MCI	\$0	\$0	0	0		
Identify Utility Conflicts	MCI	\$0	\$0	0	0		
Drainage Analysis (Station Area Locations)	MCI	\$0	\$0	0	0		
Water Harvesting Opportunities	MCI/SSW	\$0	\$0	0	0		
Evaluate Storm Sewer Outfalls (within 1,000' of Stas.)	MCI	\$0	\$0	0	0		
Station Area Grading	MCI	\$0	\$0	0	0		
Pavement/Sidewalk/Curb Ramp Design @ Sta. & Int.	MCI	\$0	\$0	0	0		
Cost Estimates	MCI/SSW	\$0	\$0	0	0		
		\$0	\$0	-	-	\$0	\$0
1.5 Stations Architecture							
Preliminary Canopy Concepts	CDA	\$0	\$0	0	0		
Artist Color Renderings	CDA	\$0	\$0	0	0		
Public Art Coordination	CDA	\$0	\$0	0	0		
Cost Estimates	CDA	\$0	\$0	0	0	\$0	\$0
		\$0	\$0	0	0	\$0	\$0
1.6 Stations MEP & Foundation							
Illumination Standards	LAN	\$0	\$0	0	0		
Plumbing Concepts	LAN	\$0	\$0	0	0		
Foundation Concepts	LAN	\$0	\$0	0	0		
Cost Estimates	LAN	\$0	\$0	0	0	\$0	\$0
		\$0	\$0	0	0	\$0	\$0
1.7 Landscaping & Irrigation							
Preliminary Concepts	SSW	\$0	\$0	0	0		
Streetscape Furniture Concepts	SSW	\$0	\$0	0	0		
Cost Estimates	SSW	\$0	\$0	0	0	\$0	\$0
		\$0	\$0	0	0	\$0	\$0
1.8 Systems - Concepts							
Internal Coord Meeting at LTK Chicago	LTK	\$0	\$0	0	0		
Prepare for Comm and Fare Workshop	LTK	\$0	\$0	0	0		
Fare Collection Workshop	LTK	\$0	\$0	0	0		
Comm Workshop	LTK	\$0	\$0	0	0		
Prepare Alternative White Paper - comm and fare	LTK	\$0	\$0	0	0		
Coord and Q&A Regarding Alt White Paper	LTK	\$0	\$0	0	0		
Prepare for Design Basis Meeting with Agency	LTK	\$0	\$0	0	0		
Fare Collection Design Basis Meeting	LTK	\$0	\$0	0	0		
Comm Design Basis Meeting	LTK	\$0	\$0	0	0		
Prepare Design Basis Memo (DBM) - comm and fare	LTK	\$0	\$0	0	0		
Coord and Q&A Regarding DBM	LTK	\$0	\$0	0	0		
Cost Estimates	LTK	\$0	\$0	0	0	\$0	\$0
		\$0	\$0	0	0	\$0	\$0
1.9 Public Outreach							
Plan Preparation for City coordination	LAN	\$0	\$0	0	0		
Presentation Materials	LAN	\$0	\$0	0	0		
Attendance at Public Meetings (6 Ea)	MCI/LAN	\$0	\$0	0	0		
Public Meetings - Generate Meeting records (6 Ea)	LAN	\$0	\$0	0	0		

# ATTACHMENT B

City of El Paso  
Sun Metro Alameda BRT  
Price Proposal for Design Services  
Fokus

			\$0					
		Price	Labor Price	Total Hours	Direct Expenses	Subcontracted Cost		
		\$0	\$0	0	0	\$0	\$0	\$0
<b>2.0 Preliminary Design Phase</b>								
<b>2.1 Project Management</b>								
Comment Resolution from PE	ALL	\$0	\$0	0	0			
Monthly Progress Meeting (3 Ea)	ALL	\$0	\$0	0	0			
Design Coordination & QA/QC	ALL	\$0	\$0	0	0			
Construction Sequencing Plan	LAN	\$0	\$0	0	0			
Construction Schedule	LAN	\$0	\$0	0	0			
Weekly/Stakeholder Meetings (12 Ea)	ALL	\$0	\$0	0	0			
Staff Assignments and Supervision	ALL	\$0	\$0	0	0			
Monthly Report & Invoicing	ALL	\$0	\$0	0	0	\$0		\$0
<b>2.2 Utility Coordination</b>								
Easement Preparation	FXSA	\$0	\$0	0	0			
Subsurface Utility Investigation	FXSA	\$0	\$0	0	0			
Utility Design (Third party) Coordination	MCI	\$0	\$0	0	0	\$0		\$0
<b>2.3 Traffic Signals &amp; Lane Configuration</b>								
Fixed Signage & Striping Plans	LAN	\$0	\$0	0	0			
Traffic Signal Design	LAN	\$0	\$0	0	0			
Signal Timing Plans	LAN	\$0	\$0	0	0			
Traffic & Pedestrian Control Plan	LAN	\$0	\$0	0	0			
DRAFT Specifications	LAN	\$0	\$0	0	0			
Cost Estimates	LAN	\$0	\$0	0	0	\$0		\$0
<b>2.4 Civil / Drainage Design</b>								
Stormwater P&P Sheets	MCI	\$0	\$0	0	0			
Detention/Ponding Area Design	MCI	\$0	\$0	0	0			
Station area grading	MCI	\$0	\$0	0	0			
Pavement/Sidewalk/Curb Ramp Design @ Sta. & Int.	MCI	\$0	\$0	0	0			
SWPPP Preparation	MCI	\$0	\$0	0	0			
DRAFT Specifications	MCI	\$0	\$0	0	0			
Cost Estimates	MCI	\$0	\$0	0	0	\$0		\$0
<b>2.5 Stations - Architect</b>								
Architecture Drawings	CDA	\$0	\$0	0	0			
Cost Estimates	CDA	\$0	\$0	0	0			
DRAFT Specifications	CDA	\$0	\$0	0	0			
Artist Color Renderings	CDA	\$0	\$0	0	0			
Public Art Coordination	CDA	\$0	\$0	0	0	\$0		\$0
<b>2.6 Station - MEP &amp; Foundation</b>								
MEP Design Drawings	LAN	\$0	\$0	0	0			
Foundation Design Drawings	LAN	\$0	\$0	0	0			
Cost Estimates	LAN	\$0	\$0	0	0			
DRAFT Specifications	LAN	\$0	\$0	0	0	\$0		\$0
<b>2.7 Landscaping &amp; Irrigation</b>								
Landscaping Plans	SSW	\$0	\$0	0	0			
Irrigation System Design	SSW	\$0	\$0	0	0			
Streetscape Furniture Plans	SSW	\$0	\$0	0	0			
Parkway improvement features	SSW	\$0	\$0	0	0			
Cost Estimates	SSW	\$0	\$0	0	0			
DRAFT Specifications	SSW	\$0	\$0	0	0	\$0		\$0
<b>2.8 ITS Design</b>								
Vehicle Procurement Coordination	LTK	\$0	\$0	0	0			
Automated Vehicle location System	LTK	\$0	\$0	0	0			
Fare Collection System	LTK	\$0	\$0	0	0			
Variable Message Signage	LTK	\$0	\$0	0	0			
Surveillance Video System	LTK	\$0	\$0	0	0			
WiFi Hotspots	LTK	\$0	\$0	0	0			
Traffic Signal Fiber Communication	LTK/LAN	\$0	\$0	0	0			
Cost Estimates	LTK	\$0	\$0	0	0			
DRAFT Specifications	LTK	\$0	\$0	0	0	\$0		\$0
<b>3.0 Final Design Phase</b>								
<b>3.1 Project Management</b>								
Comment Resolution from PFE	ALL	\$0	\$0	0	0			
Monthly Progress Meeting (2 Ea)	ALL	\$0	\$0	0	0			
Design Coordination & QA/QC	ALL	\$0	\$0	0	0			
Weekly/Stakeholder Meetings (6 Ea)	ALL	\$0	\$0	0	0			
Staff Assignments and Supervision	ALL	\$0	\$0	0	0			
Monthly Report & Invoicing	ALL	\$0	\$0	0	0	\$0		\$0
<b>3.2 Utility Coordination</b>								
Easement Preparation	FXSA	\$0	\$0	0	0			
Subsurface Utility Investigation	FXSA	\$0	\$0	0	0			
Utility Adjustment Design (Third party) Coordination	MCI	\$0	\$0	0	0			

# ATTACHMENT B

City of El Paso  
Sun Metro Alameda BRT  
Price Proposal for Design Services  
Fokus

		Price	Labor Price	Total Hours	\$0	Direct Expenses	TOTAL Subcontracted Cost
		\$0	\$0	0	0	\$0	\$0
<b>3.3 Traffic Signals &amp; Lane Configuration</b>							
Fixed Signage & Striping Plans	LAN	\$0	\$0	0	0		
Traffic Signal Design	LAN	\$0	\$0	0	0		
Specifications	LAN	\$0	\$0	0	0		
Cost Estimates	LAN	\$0	\$0	0	0		
		\$0	\$0	0	0	\$0	\$0
<b>3.4 Civil / Drainage Design</b>							
Stormwater P&P Sheets	MCI	\$0	\$0	0	0		
Detention/Ponding Area Design	MCI	\$0	\$0	0	0		
Station area grading plans	MCI	\$0	\$0	0	0		
Pavement/Sidewalk/Curb Ramp Design @ Sta. & Int.	MCI	\$0	\$0	0	0		
SWPPP Preparation	MCI	\$0	\$0	0	0		
ADA/TDLR Review (Design)	FoA/MCI	\$600	\$0	0	0	600	
Specifications	MCI	\$0	\$0	0	0		
Cost Estimates	MCI	\$0	\$0	0	0		
		\$600	\$0	0	0	\$600	\$0
<b>3.5 Stations - Architect</b>							
Architecture Drawings	CDA	\$0	\$0	0	0		
Cost Estimates	CDA	\$0	\$0	0	0		
Specifications	CDA	\$0	\$0	0	0		
Artist Color Renderings	CDA	\$0	\$0	0	0		
Public Art Coordination & Incorporation	CDA	\$0	\$0	0	0		
Building Permit Process	CDA	\$0	\$0	0	0		
		\$0	\$0	0	0	\$0	\$0
<b>3.6 Station - MEP &amp; Foundation</b>							
MEP Design	LAN	\$0	\$0	0	0		
Foundation Design	LAN	\$0	\$0	0	0		
Cost Estimates	LAN	\$0	\$0	0	0		
Specifications	LAN	\$0	\$0	0	0		
		\$0	\$0	0	0	\$0	\$0
<b>3.7 Landscaping &amp; Irrigation</b>							
Landscaping Plans	SSW	\$0	\$0	0	0		
Irrigation System Design	SSW	\$0	\$0	0	0		
Streetscape Furniture Plans	SSW	\$0	\$0	0	0		
Parkway improvement features	SSW	\$0	\$0	0	0		
Cost Estimates	SSW	\$0	\$0	0	0		
Specifications	SSW	\$0	\$0	0	0		
		\$0	\$0	0	0	\$0	\$0
<b>3.8 ITS Design</b>							
Vehicle Procurement Coordination	LTK	\$0	\$0	0	0		
Automated Vehicle location System	LTK	\$0	\$0	0	0		
Fare Collection System	LTK	\$0	\$0	0	0		
Variable Message Signage	LTK	\$0	\$0	0	0		
Surveillance Video System	LTK	\$0	\$0	0	0		
WiFi Hotspots	LTK	\$0	\$0	0	0		
Traffic Signal Fiber Communication	LTK/LAN	\$0	\$0	0	0		
Cost Estimates	LTK	\$0	\$0	0	0		
Specifications	LTK	\$0	\$0	0	0		
		\$0	\$0	0	0	\$0	\$0
		\$600	\$0	0	0	\$600	\$0
<b>4.0 Bidding/Construction Phase</b>							
<b>4.1 Bidding Assistance</b>							
Attend Pre-Bid Conference	ALL	\$0	\$0	0	0		
Respond to queries from prospective bidders	ALL	\$0	\$0	0	0		
Contract Documents Revision	ALL	\$0	\$0	0	0		
Prepare Addenda	ALL	\$0	\$0	0	0		
Evaluate Bids & provide recommendation to the City	LAN	\$0	\$0	0	0		
		\$0	\$0	0	0	\$0	\$0
<b>4.2 Construction Phase Services</b>							
Review of Shop drawings & submittals	ALL	\$0	\$0	0	0		
Responses to RFI	ALL	\$0	\$0	0	0		
Conduct monthly Site Visits and prepare reports	ALL	\$0	\$0	0	0		
Construction Change Orders Review	LAN	\$0	\$0	0	0		
Pay Estimate Review	LAN	\$0	\$0	0	0		
Commissioning and Start-up of systems	LTK/LAN	\$0	\$0	0	0		
Substantial Completion walk through	ALL	\$750	\$0	0	0	750	
Punch list preparation	ALL	\$0	\$0	0	0		
Prepare "As-Built" drawings	ALL	\$0	\$0	0	0		
Signal Timing Plans	LAN	\$0	\$0	0	0		
		\$750	\$0	0	0	\$750	\$0
<b>Total Estimated Cost</b>		<b>\$1,350</b>	<b>\$0</b>	<b>-</b>	<b>-</b>	<b>\$1,350</b>	

**ATTACHMENT "C"**  
**CONSULTANT'S BASIC AND ADDITIONAL SERVICES**

For the Project known as "ALAMEDA BUS RAPID TRANSIT (ALAMEDA BRT)," hereinafter referred to as the Project, the Consultant will provide the Basic and Additional Services as noted herein.

**BASIC SERVICES OF THE CONSULTANT**

**GENERAL**

1. The Consultant agrees to perform professional services in connection with the Project as hereinafter stated.
2. The Consultant shall comply with the City of El Paso Engineering Department Construction Document Guidelines, which are in effect at the time of this Agreement and are available in the City Engineering Department, in the performance of the services requested under the design phases of this Agreement.
3. The Consultant shall serve as the Owner's professional representative in those phases of the Project to which this Agreement applies, and shall give consultation and advice to the Owner during the performance of services.
4. The Owner is relying upon the skill, reasonable care and knowledge of the Consultant to furnish the Owner with a project within the allocated budget. The Owner's review of any documents prepared by the Consultant is only general in nature and its obligation to approve and accept the work in no way relieves the Consultant of responsibility for any specific deficiencies in the project.

**REPORT PHASE**

1. Upon receipt of the Owner's written authorization to proceed with the **Report Phase**, the Consultant shall:
  - a. Consult with the Owner to determine the requirements of the Project and together with the Owner develop a mutually acceptable scope for the Project.
  - b. Provide preliminary investigations, studies, topographic surveys including ties to known monuments of right-of-way lines, general supervision of any other services obtained as described in Part 1.c. of this section and interpreting or incorporating results of any such services for inclusion in the Preliminary Study and Report referred to in Part 1.d. of this section.
  - c. (1) Provide consultation and advice as to the necessity of providing or obtaining other services such as: (a) Property surveys, boundary surveys, right-of-way surveys, and utility surveys, (b) Core borings, probings, and hydrographic surveys, (c) Laboratory testing, and (d) Inspection or other special consultation; (2) Act as the Owner's

representative in connection with such services; and (3) If concurred with and authorized by the Owner, provide, procure, or assist in procuring such Additional Services.

- d. Prepare a Preliminary Study and Report on the Project based on the mutually accepted program in sufficient detail to indicate clearly the problems involved and the alternative solutions available to the Owner, to include schematic layouts, sketches, flow diagrams and reports of studies, and a general opinion of probable construction costs for such of the above listed improvements to be included in the Project, and to set forth the Consultant's recommendations.
  - e. As per Attachment "D", furnish the Preliminary Study and Report and a general opinion of probable construction cost opinion to the Owner.
2. Upon receipt of the Preliminary Study and Report and before the Consultant is authorized to proceed with the Preliminary Design Phase, the Owner at its option may designate in writing various construction contracts into which the Project shall be divided, each of which may include one or more of the above listed improvements to be constructed. If the Owner designates various construction contracts into which the Project is to be divided, the Consultant shall thereafter treat each construction contract as a separate Project under this Agreement. Each construction contract shall be separately bid and the Consultant shall prepare separate preliminary design, and final design drawings, specifications, proposal forms, notices to bidders, construction contract documents, and other required documents for each construction contract.
  3. As identified in the Scope of Work in Attachment "A", the Consultant shall investigate the extent and character of any potential soil or water contamination on the properties identified in the Scope of Work, conduct asbestos investigations, environmental site assessments, and provide other environmental engineering services as required and authorized. Services not included in the original scope of work shall be considered Additional Services. The Consultant shall perform such professional services as may be necessary to accomplish the work required to be performed under this Agreement, in accordance with this Agreement, applicable Texas Commission on Environmental Quality and Texas Department of State Health Services Regulations, and any and all applicable state, federal and local laws. The Consultant shall develop an Investigation Plan for the identified properties. Upon approval of the Investigation Plan by the City, the City shall arrange to issue a Notice to Proceed for the Consultant to proceed in relation to an identified property.

#### **PHASE I - PRELIMINARY DESIGN PHASE**

Upon receipt of the Owner's written authorization to proceed with the **Preliminary Design Phase**, the Consultant shall do the following separately for each construction contract:

1. Consult with the Owner to determine the Owner's requirements for the Project.
2. Provide at the Consultant's sole expense right-of-way surveys, boundary surveys, topographic surveys, drainage surveys, and soil investigations as needed to design the

Project and as required by the Scope of Work of the Agreement; obtain all available information from all utility companies and other affected agencies including, but not limited to, the Texas Department of Transportation and the U.S. Department of Interior, Bureau of Reclamation, as needed to complete the proper design. This does not, however, include property surveys and legal descriptions as needed to acquire additional right-of-way or additional property.

3. Obtain all available horizontal and vertical locations of public utilities, and fully coordinate design of the Project with public utilities in an effort to minimize relocation of utilities as much as possible.
4. Make drawings from field measurements of existing construction when required for planning additions or alterations thereto.
5. Provide consultation and advice as to the necessity of providing or obtaining other services such as the types described herein, and act as the Owner's representative in connection with any such services, and if concurred with and authorized by the Owner, provide, procure, or assist in procuring such Additional Services.
6. Review with the Owner alternative approaches in regard to the construction of the Project. The Owner at its option may designate in writing various construction contracts into which the Project shall be divided. The Consultant may request additional reasonable compensation if the Owner designates various construction contracts into which the Project is to be divided. The Consultant shall thereafter treat each construction contract as a separate Project under this Agreement. Each construction contract shall be separately bid and the Consultant shall prepare separate preliminary design, pre-final design, and final design specifications, proposal forms, notices to bidders, construction contract documents, and other required documents for each construction contract.
7. Prepare for approval by the Owner preliminary design documents consisting of evaluation of existing structural report, design criteria, drawings, and outline specifications to develop, and establish the scope of each construction contract.
8. Prepare a detailed opinion of probable construction costs for each construction contract containing the main construction components, based on the information given in the preliminary design documents.
9. As per Attachment "D", furnish copies of the above preliminary design documents and opinion of probable construction costs for each construction contract. If the above preliminary design documents are not approved by the Owner, the Consultant shall furnish copies of the resubmitted preliminary design documents at no additional cost to the Owner.

#### **PHASE II - PRE-FINAL DESIGN PHASE**

Upon receipt of the Owner's written authorization to proceed with the Pre-Final Design Phase, the Consultant shall do the following separately for each construction contract:

1. Prepare required documents and assist the Owner in obtaining approval of such governmental authorities as may have jurisdiction over the design criteria applicable to each construction contract. The Consultant's assistance in obtaining such approvals shall include participation in submissions to and negotiations with the appropriate authorities. The Consultant shall be fully responsible for coordination with all utility companies to resolve conflicts pertaining to location of utility lines and shall exercise customary and usual professional care for obtaining utility clearances. Since some utility locations may not be recorded or mapped, additional efforts to locate utilities maybe required as an additional service upon written approval of the Owner.
2. On the basis of the approved preliminary design documents and subject to approval of design criteria, prepare for incorporation in the construction contract documents detailed drawings and plans, hereinafter called the "**Drawings**," to show the character and scope of the work to be performed by construction contractors on each construction contract, instructions to bidders, general conditions, special conditions, and technical provisions, hereinafter called "**Specifications**." These plans shall include the required cross sections from actual fieldwork for estimated earthwork quantities.
3. Advise the Owner of any adjustment to the Consultant's previous opinion of probable construction costs for each construction contract caused by changes in scope, design requirements, general market conditions, or construction costs and furnish a revised opinion of probable construction costs, based on the completed Drawings and Specifications. The Consultant expressly authorizes any person designated by the Owner to review at any time prior to the Bidding Phase any opinion of probable construction costs made by the Consultant. The Consultant agrees to cooperate fully in such review, and shall furnish the access to all pertinent information upon which the Consultant's cost opinions were based. In addition, detailed estimates to include orderly presented takeoff sheets, summary and main summary sheets are to be provided to the Owner. Nothing in this provision shall be construed as limiting or waiving the right of the Owner to obtain such information at any other time, or as relieving the Consultant of the responsibility of preparing opinions of probable construction costs. The Owner understands that the Consultant has no control over the cost of availability of labor, equipment, market conditions, or the contractor's method of pricing and that the Consultant's opinion of probable construction costs are made on the basis of professional judgment and experience. The Consultant makes no warranty that the bids will not vary from the opinion of probable construction costs.
4. Prepare proposal forms.
5. As per Attachment "D", furnish to the Owner copies of the Drawings for review by the Owner, other governmental authorities, and the public utilities. If the Drawings are not approved by the Owner, the Consultant shall furnish copies of the resubmitted Drawings at no additional cost to the Owner. Furnish to the Owner copies of the Specifications and copies of the design analysis showing all engineering calculations for review by the

Owner, other governmental authorities who may have jurisdiction over each construction contract, and the public utilities.

### **PHASE III - FINAL DESIGN PHASE**

*Upon receipt of the Owner's written authorization to proceed with the Final Design Phase, the Consultant shall do the following separately for each construction contract:*

1. Incorporate changes requested by the Owner and other governmental authorities after review of pre-final design documents and perform redesign necessitated by public utility conflicts.
2. Coordinate closely with utility companies during the Preliminary Design and Pre-Final Design Phases. The amount of redesign necessary to accommodate utility company comments on the pre-final design drawings is expected to be in proportion to the effectiveness of that coordination and is to be performed by the Consultant as part of the Final Design Phase of this Agreement. The Consultant shall obtain written utility clearance from all utility companies affected by the scope of this Project as part of the Final Design Phase of this Agreement.
3. Submit to the Texas Department of Licensing and Regulation, or a State Certified ADA consultant, a set of Final Design Drawings for ADA review and approval.
4. As per Attachment "D", furnish to the Owner copies of final design Drawings and Specifications for review and approval prior to the reproduction for bidding purposes.
5. As per Attachment "D", furnish to the Owner copies of the Drawings and Specifications in final approved form for bidding purposes for each construction contract.
6. Additional copies of the drawings and specifications beyond those identified in Attachment "D", required for public utilities and other agencies, will be provided by the Consultant as an Additional Service.

### **BIDDING PHASE**

Upon receipt of Owner's written request, the Consultant shall provide any of the following services during the Bidding Phase:

1. Assist the Owner in the determination of the bidding period and bid date and provide necessary data for preparation of the notice to bidders by the Owner as required for advertising purposes.
2. Assist the Owner in responding to all questions from prospective bidders concerning the Drawings and Specifications.
3. Attend a pre-bid conference, if any, to explain the Project and to answer questions regarding the Project.



4. Prepare addenda to the Drawings and Specifications as may be required during the advertising period. Any addenda issued shall be approved by all agencies having approval authority over the Drawings and Specifications. As per Attachment "D", deliver copies of all addenda to the Owner for appropriate action.
5. As identified in Attachment "A", assist the Owner in evaluating bids, including obtaining and providing to the Owner reasonably available information as to the quality, ability, and performance record of the three lowest responsible bidders or assist the Owner in rating all bidders using Best Value Evaluation Criteria provided by the Owner, including obtaining and providing to the Owner reasonably available information as to the quality, ability, and performance record of the bidders. If Best Value Evaluation Criteria are required after the consulting fees have been negotiated and accepted, Consultant may request Additional Services fees.
6. Advise the Owner concerning the acceptability of subcontractors and other persons and organizations proposed by the general construction contractor for those portions of the work for which such acceptability is required by the construction contract documents.

#### **CONSTRUCTION PHASE**

*At Owner's request, the Consultant shall provide any of the following services associated with the Construction Phase:*

1. Attend the pre-construction conference to assist the Owner in responding to all questions from the construction contractor.
2. Advise and consult with the Owner and act as the Owner's representative as provided in the general conditions of the Agreement included in the construction contract. Such general conditions shall be the Owner's standard general conditions for construction projects, with such changes and modifications as may be made in such general conditions being agreed to by both the Consultant and the Owner.
3. Unless otherwise stipulated in Attachment "A", Scope of Services, the Consultant will stake one set of control stakes for the construction contractor.
4. Visit each construction site at least once each week or more frequently, if necessary, to observe the progress and quality of the executed work and to determine if such work meets the essential performance and design features and the technical and functional requirements of the construction contract documents. The Consultant shall provide the Owner with typed or printed field notes for each construction site visit. On the basis of these on-site observations, the Consultant shall endeavor to guard the Owner against apparent defects and deficiencies in the permanent work constructed by the construction contractor. The Consultant shall not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the work, and shall not be responsible for the construction means, methods, techniques, sequences, or procedures, or the safety precautions incident thereto. The Consultant's efforts shall be directed toward providing assurance for the Owner that each completed construction contract shall conform to the

engineering requirements of the construction contract documents. However, the Consultant shall not be responsible for the construction contractor's failure to perform the construction work in accordance with the construction contract documents.

Nothing in this Agreement shall be construed as requiring the Consultant to assume responsibility for or to guarantee the complete adherence of the construction contractor to the Drawings and Specifications and the construction contract documents.

5. Review shop drawings diagrams, illustrations, brochures, catalog data, schedules, and samples, the results of tests and inspections and other data which the construction contractor is required to submit, for conformance with the design concept of each construction contract and compliance with the information given in the construction contract documents. **Such review must be complete within ten City working days following receipt of submittal documents.** The Consultant shall also assemble maintenance and operating instructions, schedules, guarantees, bonds, certificates of inspection, and other documents that the construction contractor is required to submit in accordance with the construction contract documents.
6. Issue the Owner's instructions to the construction contractor when required to do so, prepare routine change orders to include independent detailed opinion of probable construction cost for the Owner's approval as required after securing approval of all agencies having approval authority over each construction contract. The Consultant shall require, as the Owner's representative and subject to the written concurrence by the Owner, special inspection or testing of the work, whether or not fabricated, installed, or completed and shall act as interpreter of the terms and conditions of the construction contract documents, subject to the Owner's interpretation of such terms and conditions. If the Owner authorizes such testing, it shall be addressed under the provisions of Additional Services of the Consultant.
7. Based on the Consultant's on-site observations as an experienced and qualified design professional and on review of the construction contractor's applications for payment and supporting data, determine the amount owing to the construction contractor and recommend in writing payment to the construction contractor in such amounts; such recommendation of payment to constitute a representation to the Owner, based on such observations and review, that the work has progressed to the point indicated and that, to the best of the Consultant's knowledge, information and belief, the quality of the work is in accordance with the construction contract documents, subject to an evaluation of the work as a functioning project upon substantial completion, to the results of any subsequent tests called for in the construction contract documents and to any qualifications stated in his approval. By recommending an application for payment, the Consultant shall not be deemed to have represented that the Consultant has made any examination to determine how or for what purposes the construction contractor has used the monies paid on account of each construction contract price.

8. Conduct with the Owner and construction contractor no more **than two brief preliminary inspections**, at times requested by the construction contractor to determine if the Project is ready for final inspection.
9. Schedule and conduct with the Owner, including representative of the City Engineer and the user department, the State ADA inspector or State certified ADA consultant, and the construction contractor, a final inspection of the Project and prepare and publish a "punch list" of minor deficiencies to be corrected prior to final payment to the construction contractor. The "**punch list**" shall be furnished to the construction contractor and the Owner within **two City working days** after the final inspection.
10. Issue a "Certificate of Substantial Completion" using EJCDC document 1910-8-D (1983 version) when the final inspection reveals that the Project is substantially complete and fully usable for its intended purpose with only minor deficiencies to be corrected. The certificate shall be issued within **two City working days** after the final inspection.
11. Monitor and verify proper correction of all punch list deficiencies. Notify the Owner in writing when all deficiencies have been corrected, and when warranty, maintenance, and operating instructions and other documents have been submitted by the construction contractor. Act on and forward the construction contractor's final invoice for payment.
12. Furnish the Owner one set of reproducible (**D format**) "record" drawings **on Mylar** showing changes made during the construction process, based on the marked-up prints, drawings, and other data furnished by the construction contractor to the Consultant. Also provide project documents in acceptable electronic media format
13. Make written recommendations to the Owner on all claims relating to the execution and progress of the construction work.
14. Notify the Owner of all permanent work which does not conform to the result required in each construction contract; prepare a written report describing any apparent nonconforming permanent work, and make recommendations to the Owner for its correction and, at the Owner's request, have recommendations implemented by the construction contractor.
15. Furnish property surveys and legal descriptions as needed to acquire additional right-of-way or additional property.
16. Revise previously approved studies, reports, design documents, drawings, or specifications, except when said revisions are required as a result of errors, negligence, or other fault on the part of the Consultant.
17. Prepare documents for alternate bids requested by the Owner for construction work for which bids have not been awarded.

18. If Best Value Evaluation Criteria are required after the Consulting fees have been negotiated and accepted, the Consultant may request Additional Service fees.
19. Prepare detailed renderings, exhibits, or scale models for the Project, except as otherwise required herein.
20. Furnish additional tests and inspections, in excess of those required herein during the Construction Phase.
21. Prepare change orders requiring additional significant design changes not provided for in the Agreement, requested by the Owner.
22. Inspect each construction contract site prior to expiration of the guarantee period and report, in written form, observed discrepancies under guarantees provided by the construction contractor.
23. Provide additional or extended services during construction made necessary by: **a)** work damaged by fire or other cause during construction; **b)** prolongation of the construction contract time by more than **twenty-five percent** provided that such prolongation is not caused by errors, negligence, or other fault on the part of the Consultant; **c)** Acceleration of the work schedule involving services beyond normal city working hours; or **d)** the construction contractor's default under the construction contract due to delinquency or insolvency.
24. Provide extensive assistance in the initial start-up and test operation of equipment or devices and the preparation of manuals of operation and maintenance.
25. Serve as an expert witness for the Owner in any litigation or other proceeding involving the Project.

### **ADDITIONAL SERVICES OF THE CONSULTANT**

#### **GENERAL**

If authorized in writing by the Owner, through written amendment, the Consultant shall perform or obtain Additional Services noted below, which are not covered within the Agreement. No claim for Additional Services or cost shall be allowed unless the same was done pursuant to a written authorization dated prior to the Additional Services or cost and which was authorized pursuant to the policies and procedures of the Owner (i.e., passage by City Council). The Owner shall pay for such Additional Services as indicated in the Agreement.

1. Furnish core borings, probings, and hydrographic surveys; laboratory testing; inspection of samples or materials; and other special consultations.
2. Provide Additional Services due to significant changes in the general scope of the Project or its design including, but not limited to, changes in size, complexity, or character of construction if the changes are inconsistent with approvals or instructions previously

given by the Owner including revisions made necessary by adjustments in the Owner's scope or budget, except where the Consultant's preliminary study and report, preliminary design, pre-final design, or final design cost opinions exceed the budgeted amount, or in the case where all responsible bids exceed the Consultant's final design cost opinions by **ten percent** or more.

3. Furnish additional copies of studies, reports, and additional prints of Drawings and Specifications in excess of those required herein.
4. Provide investigations involving detailed consideration of operation, maintenance, and overhead expenses as well as the preparation of rate schedules, earnings and expense statements, feasibility studies, appraisals and valuations, detailed quantity surveys of material or labor.
5. Provide Additional Services in connection with the Project not otherwise provided for in this Agreement, except where those services are required as a result of negligence or other fault on the part of the Consultant.

#### **RESIDENT PROJECT SERVICES**

1. If directed in writing by the Owner, one or more full-time Resident Project Representatives shall be furnished and directed by the Consultant in order to provide more extensive representation at each construction site during the Construction Phase. Such resident project representation shall be paid for by the Owner.
2. The duties and responsibilities and the limitations on the authority of the Resident Project Representative shall be as set forth in writing by the City Engineer before such services begin.
3. Through the continuous on-site observations of the work in progress and field checks of materials and equipment by the Resident Project Representative, the Consultant shall endeavor to provide further protection for the Owner against defects and deficiencies in the work of the construction contractors, but the furnishings of such resident project representation shall not make the Consultant responsible for the construction contractor's failure to perform the construction work in accordance with the construction contract documents.

**ATTACHMENT "D"**  
**PAYMENT AND DELIVERABLE SCHEDULES**

For the Project known as "ALAMEDA BUS RAPID TRANSIT (ALAMEDA BRT)", hereinafter referred to as the Project, the Owner will compensate the Consultant an amount not to exceed **ONE MILLION NINE HUNDRED FIFTY THOUSAND AND 00/100 DOLLARS (\$1,950,000.00)** for all Basic Services and reimbursables noted within the Agreement and its attachments.

**PAYMENT SCHEDULE**

Basic services for design shall include the phases listed below at the fixed fee shown for each phase. The remainder of the fixed contract amount, if any, shall consist of the estimate for the time and materials for the bidding phase and construction phase.

<b>Fixed fee Payment to Consultant</b>	
<b>Report Phase</b>	<b>\$N/A</b>
<b>Preliminary Design Phase</b>	<b>\$1,080,748.00</b>
<b>Pre-Final Design Phase</b>	<b>\$405,665.00</b>
<b>Final Design Phase</b>	<b>\$228,152.00</b>

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<b>Bidding Phase</b>	<b>Time and Materials</b>	<b>Proposal Estimated Amount</b>	<b>\$50,057.00</b>
<b>Construction Phase</b>	<b>Time and Materials</b>	<b>Proposal Estimated Amount</b>	<b>\$185,378.00</b>

Time and materials shall be billed to Owner by Consultant pursuant to the schedule provided in the consultant's proposal found in Attachment B. The time shown in Attachment B is an estimate. Should the services rendered during the bidding and construction phases exceed the estimated amount, written authorization will be required prior to rendering services. Written authorization shall be only by contract amendment in accordance with the contract provisions. For contracts with a total value less than Fifty Thousand and No/100 Dollars (\$50,000), the parties agree that at no time may the amount of the compensation under this contract exceed Fifty Thousand and No/100 Dollars (\$50,000) except by execution of an amendment to this Agreement.

Payment for each Phase shall be made on a monthly basis. The Owner shall make payments upon presentation of the Consultant's detailed Invoice and accompanying Summary and Progress Report and the Owner's written approval.

**DELIVERABLE SCHEDULE**

**REPORT PHASE**

The services called for in the Report Phase of this Agreement shall be completed and **five copies** of the Preliminary Study and Report shall be submitted within N/A **consecutive calendar days** following written authorization from the Owner for the Consultant to proceed.

#### **PHASE I—PRELIMINARY DESIGN PHASE**

The services called for in **Phase I** of this Agreement shall be completed and **fifteen copies** of any required documents and opinion of probable construction costs shall be submitted within **190 consecutive calendar days** following written authorization from the Owner for the Consultant to proceed.

#### **PHASE II—PRE-FINAL DESIGN PHASE**

The services called for in **Phase II** of this Agreement shall be completed and **ten copies** the required documents and services shall be submitted within **80 consecutive calendar days** following written authorization from the Owner for the Consultant to proceed.

#### **PHASE III—FINAL DESIGN PHASE**

The services called for in **Phase III** of this Agreement shall be completed and **three copies** of final design Drawings and Specifications for review and approval prior to the reproduction for bidding purposes shall be submitted within **40 consecutive calendar days** following written authorization from the Owner for the Consultant to proceed. And, **thirty copies** of the Drawings and Specifications in final approved form for bidding purposes for each construction contract shall be submitted within **3 consecutive calendar days** following written authorization from the Owner for the Consultant to proceed.

#### **PHASE IV—BIDDING PHASE**

Provide services as authorized by Owner during the bid phase as described in Attachment "C" and submit **three copies** of all addenda to the Owner for appropriate action within **2 consecutive calendar days**.

#### **PHASE V - CONSTRUCTION PHASE**

Provide services as authorized by Owner during construction phase as described in Attachment "C" and submit one set of Mylar and one set of electronic media format copies of all record drawings to the Owner within sixty days from the date of substantial completion.



# CERTIFICATE OF LIABILITY INSURANCE

1/1/2012

DATE (MM/DD/YYYY)

4/28/2011

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Lockton Companies, LLC-1 Kansas City  
444 W. 47th Street, Suite 900  
Kansas City MO 64112-1906  
(816) 960-9000

## CONTACT

NAME:

PHONE

(A/C, No, Ext):

FAX

(A/C, No):

E-MAIL

ADDRESS:

## INSURER(S) AFFORDING COVERAGE

NAIC #

INSURER A: Continental Casualty Company

20443

INSURER B: Valley Forge Insurance Company

20508

INSURER C: St Paul Fire and Marine Insurance Co

24767

INSURER D: National Fire Insurance Co of Hartford

20478

INSURER E:

INSURER F:

INSURED LOCKWOOD, ANDREWS & NEWNAM, INC.  
1079765 ATTN: MR. DON SCHUETZ  
2925 BRIARPARK DRIVE  
HOUSTON TX 77042

COVERAGES LEAD01 PC CERTIFICATE NUMBER: 11214725 REVISION NUMBER: XXXXXXXX

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
D	GENERAL LIABILITY	Y	N	1015651942	1/1/2011	1/1/2012	EACH OCCURRENCE \$ 1,000,000
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						MED EXP (Any one person) \$ 5,000
							PERSONAL & ADV INJURY \$ 1,000,000
							GENERAL AGGREGATE \$ 2,000,000
							PRODUCTS - COMP/OP AGG \$ 2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						\$
	<input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						\$
A	AUTOMOBILE LIABILITY	Y	N	1015651956	1/1/2011	1/1/2012	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
	<input checked="" type="checkbox"/> ANY AUTO						BODILY INJURY (Per person) \$ XXXXXXXX
	<input checked="" type="checkbox"/> ALL OWNED AUTOS						BODILY INJURY (Per accident) \$ XXXXXXXX
	<input checked="" type="checkbox"/> HIRED AUTOS						PROPERTY DAMAGE (Per accident) \$ XXXXXXXX
							\$ XXXXXXXX
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR	N	N	QK08001046	1/1/2011	1/1/2012	EACH OCCURRENCE \$ 25,000,000
	<input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE						AGGREGATE \$ 25,000,000
	<input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 10,000						\$ XXXXXXXX
B B B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	Y/N	Y	1015651973 (AOS)	1/1/2011	1/1/2012	<input checked="" type="checkbox"/> WC STATU-TORY LIMITS
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	N	N/A	1063334422 (CA)	1/1/2011	1/1/2012	E.L. EACH ACCIDENT \$ 1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below			2076231879 (DC)	1/1/2011	1/1/2012	E.L. DISEASE - EA EMPLOYEE \$ 1,000,000
							E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)  
CITY OF EL PASO ALAMEDA BRT DESIGN PROJECT: THE CITY OF EL PASO, ITS PARTNERS, AGENTS AND EMPLOYEES ARE ADDITIONAL INSURED AS RESPECTS TO GENERAL AND AUTO LIABILITY, AS REQUIRED BY WRITTEN CONTRACT. WAIVER OF SUBROGATION APPLIES TO WORKERS COMPENSATION WHERE ALLOWED BY STATE LAW AND AS REQUIRED BY WRITTEN CONTRACT.

## CERTIFICATE HOLDER

## CANCELLATION

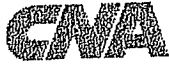
11214725

CITY OF EL PASO  
ENGINEERING AND CONSTRUCTION MANAGEMENT  
ATTN: SAMUEL RODRIGUEZ  
ENGINEERING DIVISION MANAGER  
2 CIVIC CENTER PLAZA, 4TH FLOOR OF CITY HALL  
EL PASO TX 9901

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE





POLICY NO. C 1015651942

**BLANKET ADDITIONAL INSURED - OWNERS,  
LESSEES OR CONTRACTORS - WITH PRODUCTS-COMPLETED  
OPERATIONS COVERAGE**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

**SCHEDULE (OPTIONAL)**

<b>Name of Additional Insured Persons Or Organizations</b>
(As required by "written contract" per Paragraph A. below.)

<b>Locations of Covered Operations</b>
(As per the "written contract," provided the location is within the "coverage territory" of this Coverage Part.)

A. Section II - Who Is An Insured is amended to include as an additional insured:

1. Any person or organization whom you are required by "written contract" to add as an additional insured on this Coverage Part; and
2. The particular person or organization, if any, scheduled above.

B. The insurance provided to the additional insured is limited as follows:

1. The person or organization is an additional insured only with respect to liability for "bodily injury," "property damage," or "personal and advertising injury" caused in whole or in part by:
  - a. Your acts or omissions; or
  - b. The acts or omissions of those acting on your behalf
 in the performance of your ongoing operations specified in the "written contract"; or
  - c. "Your work" that is specified in the "written contract" but only for "bodily injury" or "property damage" included in the "products-completed operations hazard," and only if:
    - (1) The "written contract" requires you to provide the additional insured such coverage; and
    - (2) This Coverage Part provides such coverage.
2. We will not provide the additional insured any broader coverage or any higher limit of insurance than the least that is:
  - a. Required by the "written contract";
  - b. Described in B.1. above; or
  - c. Afforded to you under this policy.
3. This insurance is excess of all other insurance available to the additional insured whether on a primary, excess, contingent or any other basis. But if required by the "written contract,"

this insurance will be primary and non-contributory relative to insurance on which the additional insured is a Named Insured.

4. The insurance provided to the additional insured does not apply to "bodily injury," "property damage," or "personal and advertising injury arising out of:
  - a. The rendering of, or the failure to render, any professional architectural, engineering, or surveying services, including:
    - (1) The preparing, approving, or failing to prepare or approve maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; and
    - (2) Supervisory, inspection, architectural or engineering activities; or
  - b. Any premises or work for which the additional insured is specifically listed as an additional insured on another endorsement attached to this Coverage Part.

C. SECTION IV - COMMERCIAL GENERAL LIABILITY CONDITIONS is amended as follows:

1. The Duties In The Event of Occurrence, Offense, Claim or Suit condition is amended to add the following additional conditions applicable to the additional insured:

An additional insured under this endorsement will as soon as practicable:

- (1) Give us written notice of an "occurrence" or an offense which may result in a claim or "suit" under this insurance, and of any claim or "suit" that does result;
- (2) Except as provided in Paragraph B.3 of this endorsement, agree to make available any other insurance the additional insured has for a loss we cover under this Coverage Part;
- (3) Send us copies of all legal papers received, and otherwise cooperate with us in the investigation, defense, or settlement of the claim or "suit"; and
- (4) Tender the defense and indemnity of any claim or "suit" to any other insurer or self insurer whose policy or program applies to a loss we cover under this Coverage Part. But if the "written contract" requires this insurance to be primary and non-contributory, this provision (4) does not apply to insurance on which the additional insured is a Named Insured.

We have no duty to defend or indemnify an additional insured under this endorsement until we receive from the additional insured written notice of a claim or "suit."

2. With respect only to the insurance provided by this endorsement, the first sentence of Paragraph 4.a. of the Other Insurance Condition is deleted and replaced with the following:

4. Other Insurance

a. Primary Insurance

This insurance is primary and non-contributory except when rendered excess by endorsement G-140331-C, or when Paragraph b. below applies.

- D. Only for the purpose of the insurance provided by this endorsement, SECTION V - DEFINITIONS is amended to add the following definition:

"Written contract" means a written contract or written agreement that requires you to make a person or organization an additional insured on this Coverage Part, provided the contract or agreement:

1. Is currently in effect or becomes effective during the term of this policy; and
2. Was executed prior to:
  - a. The "bodily injury" or "property damage"; or
  - b. The offense that caused the "personal and advertising injury" for which the additional insured seeks coverage under this Coverage Part.



THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**CHANGES – NOTICE OF CANCELLATION  
OR MATERIAL COVERAGE CHANGE**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART  
LIQUOR LIABILITY COVERAGE PART  
OWNERS AND CONTRACTORS PROTECTIVE LIABILITY COVERAGE PART  
POLLUTION LIABILITY COVERAGE PART  
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART  
RAILROAD PROTECTIVE LIABILITY COVERAGE PART

In the event of cancellation or material change that reduces or restricts the insurance afforded by this Coverage Part (other than the reduction of aggregate limits through payment of claims), we agree to mail prior written notice of cancellation or material change to:

**SCHEDULE**

1. Number of days advance notice: 30

Lockwood, Andrews and Newnam, Inc. – Policy #1015651942

2. Name: The City of El Paso
3. Address: Attn: City Engineer  
2 Civic Center Plaza  
El Paso, TX 79901

COMMERCIAL AUTO  
CA 20 48 02 99

Policy Number: C1015651956

THIS ENDORSEMENT CHANGES THE POLICY. READ IT CAREFULLY.

**DESIGNATED INSURED**

This endorsement modified insurance provided under the following:

BUSINESS AUTO COVERAGE FORM  
GARAGE COVERAGE FORM  
MOTOR CARRIER COVERAGE FORM  
TRUCKERS COVERAGE FORM

With respect to coverage provided by this endorsement, the provisions of the Coverage Form apply unless modified by this endorsement.

This endorsement identifies person(s) or organization(s) who are "insured" under the Who Is An Insured Provision of the Coverage Form. This endorsement does not alter coverage provided in the Coverage Form.

This endorsement changes the policy effective on the inception date of the policy unless another date is indicated below.

**SCHEDULE**

Name of Person(s) or Organization(s):  
AS REQUIRED BY WRITTEN CONTRACT

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to the endorsement.)

Each person or organization shown in the Schedule is an "insured" for Liability Coverage, but only to the extent that person or organization qualifies as an "insured" under the Who Is An Insured Provision contained in Section II of the Coverage Form.



Policy #C1015651956

**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT  
CAREFULLY.****CANCELLATION BY US  
NOTICE TO DESIGNATED PERSONS**

This endorsement modifies insurance provided under the following:

THE COMMON POLICY CONDITIONS OF THE BUSINESS AUTO COVERAGE FORM

The following is added to Paragraph A. CANCELLATION:

- A. 7. In the event we cancel your policy in accordance with your policy's terms and conditions, we will endeavor to mail written notice of cancellation to the designated persons named below within the stated time frames. However, failure to mail such notice shall impose no obligation or liability of any kind upon us, our agents or representatives.
- a. 10 days before the effective date of cancellation if we cancel for non-payment of premium, or
  - b. 30 days before the effective date of cancellation if we cancel for any other reason.

Designated Person(s):Address:

- |   |                      |
|---|----------------------|
| 1. The City of El Paso, Attn: City Manager  | 2 Civic Center Plaza |
|   | El Paso, TX 79901    |
| 2. The City of El Paso, Attn: City Engineer | 2 Civic Center Plaza |
|   | El Paso, TX 79901    |

WFO 42 03 04 A  
(Ed. 1-00)

Policy #WC115651973

G-20472-A  
(Ed. 10/93)WORKERS' COMPENSATION AND EMPLOYERS' LIABILITY INSURANCE POLICY

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## NOTICE OF CANCELLATION OR MATERIAL CHANGE ENDORSEMENT

In the event of cancellation or other material change of the policy, we will mail advance notice to the person or organization named in the Schedule. The number of days advance notice is shown in the Schedule.

This endorsement shall not operate directly or indirectly to benefit anyone not named in the Schedule.

## Schedule

1. Number of days advance notice: 30
2. Notice will be mailed to:

The City of El Paso  
Attn: City Manager  
2 Civic Center Plaza  
El Paso, TX 79901

The City of El Paso  
Attn: City Engineer  
2 Civic Center Plaza  
El Paso, TX 79901

WC 99 06 06

G-20472-A  
(Ed. 10/93)

Page 1 of 1



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

4/28/2011

6/10/2011

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Lockton Companies, LLC-I Kansas City  
444 W. 47th Street, Suite 900  
Kansas City MO 64112-1906  
(816) 960-9000

## CONTACT

NAME:

PHONE

(A/C, No, Ext):

E-MAIL

ADDRESS:

FAX

(A/C, No):

INSURER(S) AFFORDING COVERAGE

NAIC #

INSURER A: Continental Casualty Company

20443

INSURER B:

INSURER C:

INSURER D:

INSURER E:

INSURER F:

INSURED LOCKWOOD, ANDREWS & NEWNAM, INC.  
1057787 ATTN: MR. DON SCHUETZ  
2925 BRIARPARK DRIVE  
HOUSTON, TX 77042

COVERAGES LEAD01 PC CERTIFICATE NUMBER: 11214766

REVISION NUMBER: XXXXXXXX

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	GENERAL LIABILITY		NOT APPLICABLE			EACH OCCURRENCE \$ XXXXXXXX
	COMMERCIAL GENERAL LIABILITY					DAMAGE TO RENTED PREMISES (Ea occurrence) \$ XXXXXXXX
	CLAIMS-MADE <input type="checkbox"/> OCCUR <input type="checkbox"/>					MED EXP (Any one person) \$ XXXXXXXX
	GEN'L AGGREGATE LIMIT APPLIES PER:					PERSONAL & ADV INJURY \$ XXXXXXXX
	POLICY <input type="checkbox"/> PROJECT <input checked="" type="checkbox"/> LOC <input type="checkbox"/>					GENERAL AGGREGATE \$ XXXXXXXX
	AUTOMOBILE LIABILITY		NOT APPLICABLE			PRODUCTS - COMPIOP AGG \$ XXXXXXXX
	ANY AUTO					COMBINED SINGLE LIMIT (Ea accident) \$ XXXXXXXX
	ALL OWNED AUTOS					BODILY INJURY (Per person) \$ XXXXXXXX
	HIRED AUTOS					BODILY INJURY (Per accident) \$ XXXXXXXX
	SCHEDULED AUTOS					PROPERTY DAMAGE (Per accident) \$ XXXXXXXX
	NON-OWNED AUTOS					\$ XXXXXXXX
	UMBRELLA LIAB		NOT APPLICABLE			EACH OCCURRENCE \$ XXXXXXXX
	EXCESS LIAB					AGGREGATE \$ XXXXXXXX
	DED <input type="checkbox"/> RETENTION \$					\$ XXXXXXXX
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY		NOT APPLICABLE			WC STATUTORY LIMITS <input type="checkbox"/> OTHER <input type="checkbox"/>
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)					E.L. EACH ACCIDENT \$ XXXXXXXX
	If yes, describe under DESCRIPTION OF OPERATIONS below					E.L. DISEASE - EA EMPLOYEE \$ XXXXXXXX
A	PROFESSIONAL LIABILITY		CIH 00 616 13 40	6/10/2010	6/10/2011	E.L. DISEASE - POLICY LIMIT \$ XXXXXXXX
						\$5,000,000 EACH CLAIM AND IN THE ANNUAL AGGREGATE

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)  
CITY OF EL PASO ALAMEDA BRT DESIGN PROJECT

## CERTIFICATE HOLDER

## CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

11214766

CITY OF EL PASO  
ENGINEERING AND CONSTRUCTION MANAGEMENT  
ATTN: SAMUEL RODRIGUEZ  
ENGINEERING DIVISION MANAGER  
2 CIVIC CENTER PLAZA, 4TH FLOOR OF CITY HALL  
EL PASO TX 9901





For All the Commitments You Make®

PROFESSIONAL LIABILITY  
ARCHITECTS/ENGINEERS  
COINSURANCE PROGRAM

INSURED: Lockwood, Andrews and Newnam, Inc.  
Policy CIH-00-616-13-40 Effective 04/22/11 Endorsement Number 24

NOTICE ENDORSEMENT-  
CANCELLATION OR NON-RENEWAL

We agree with you that your Policy is amended to include the following additional provisions:

## 1. Your Policy will not be:

XX Cancelled by us until we provide at least:

— days prior written notice if we cancel your Policy for non-payment of Premium;

— days prior written notice if we cancel your Policy for the following reasons:

30 days prior written notice if we cancel your Policy for any other reason not specifically addressed above;

to the person or entity named in 2. below.

— Non-renewed by us until at least \_\_\_ days prior written notice is given to the person or entity named in 2. below.

## 2. Person or Entity:

Name: The City of El Paso  
Attn: City Manager  
Address: 2 Civic Center Plaza  
City, State, Zip: El Paso, Texas 79901

All other terms and conditions of the Policy remain unchanged.

510067

(Ed. 10/05)

ATTACHMENT E



For All the Commitments You Make®

PROFESSIONAL LIABILITY  
ARCHITECTS/ENGINEERS  
COINSURANCE PROGRAM

INSURED: Lockwood, Andrews and Newnam, Inc.  
Policy CIH-00-616-13-40 Effective 4/22/11

Endorsement Number 24

ENDORSEMENT CONTINUED

This endorsement, which forms a part of and is for attachment to the Policy issued by the designated Insurers, takes effect on the effective date of said Policy at the hour stated in said Policy and expires concurrently with said Policy unless another effective date is shown above.

By Authorized Representative  
(No signature is required if issued with the Policy or if it is effective on the Policy Effective Date)

510067

Countersigned by Authorized Representative

(Ed. 10/05)



For All the Commitments You Make®

PROFESSIONAL LIABILITY  
ARCHITECTS/ENGINEERS  
COINSURANCE PROGRAM

INSURED: Lockwood, Andrews and Newnam, Inc.  
Policy CIH-00-616-13-40 Effective 04/22/11 Endorsement Number 25

NOTICE ENDORSEMENT-  
CANCELLATION OR NON-RENEWAL

We agree with you that your Policy is amended to include the following additional provisions:

## 1. Your Policy will not be:

XX Cancelled by us until we provide at least:

\_\_\_ days prior written notice if we cancel your Policy for non-payment of Premium;

\_\_\_ days prior written notice if we cancel your Policy for the following reasons:

30 days prior written notice if we cancel your Policy for any other reason not specifically addressed above;

to the person or entity named in 2. below.

\_\_\_ Non-renewed by us until at least \_\_\_ days prior written notice is given to the person or entity named in 2. below.

## 2. Person or Entity:

Name: City of El Paso  
Attn: City Engineer  
Address: 2 Civic Center Plaza  
City, State, Zip: El Paso, Texas 79901

All other terms and conditions of the Policy remain unchanged.

510067

(Ed. 10/05)



For All the Commitments You Make®

PROFESSIONAL LIABILITY  
ARCHITECTS/ENGINEERS  
COINSURANCE PROGRAMINSURED: Lockwood, Andrews and Newnam, Inc.  
Policy CIH-00-616-13-40 Effective 4/22/11

Endorsement Number 25

ENDORSEMENT CONTINUED

This endorsement, which forms a part of and is for attachment to the Policy issued by the designated Insurers, takes effect on the effective date of said Policy at the hour stated in said Policy and expires concurrently with said Policy unless another effective date is shown above.

By Authorized Representative  
(No signature is required if issued with the Policy or if it is effective on the Policy Effective Date)

510067

Countersigned by Authorized Representative

(Ed. 10/05)