

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

AGENDA DATE: May 10, 2022

PUBLIC HEARING DATE: N/A

CONTACT PERSON(S) NAME AND PHONE NUMBER: Sam Rodriguez, P.E., City Engineer
(915) 212-1808

DISTRICT(S) AFFECTED: All

STRATEGIC GOAL: No.7: Enhance and Sustain El Paso's Infrastructure Network

SUBGOAL: 7.3 Enhance a regional comprehensive transportation system.

SUBJECT:

That the City Manager be authorized to sign a Professional Services Agreement for the project known as "Traffic Management Center Upgrades" to AECOM Technical Services, Inc. The Agreement will be for an amount not to exceed Three Million, Five Hundred Eighteen Thousand, Seven Hundred Sixty-Nine and 71/100 Dollars (\$3,518,769.71), and includes authorization for the City Engineer to approve additional Basic Services and Reimbursables for an amount not to exceed Fifty Thousand and No/100 Dollars (\$50,000.00) and authorization for the City Engineer to approve Additional Services for an amount not to exceed Fifty Thousand and No/100 Dollars (\$50,000.00) if the identified services are necessary for proper execution of identified project and if the increased amounts are within the appropriate budget identified for the project for a total amount of \$3,618,769.71. In addition, the City Manager is authorized to establish the funding sources and make any necessary budget transfers and execute any and all documents necessary for execution the Agreement.

BACKGROUND / DISCUSSION:

The agreement for professional services provides for the design of upgrades to the City of El Paso Traffic Management Center and traffic signal upgrades to include evaluating the latest technology used to control and communicate with traffic signal lights, adaptive technology, emergency preemption and mass transit priority.

PRIOR COUNCIL ACTION:

N/A

AMOUNT AND SOURCE OF FUNDING:

FHWA/CMAQ with City match.

HAVE ALL AFFECTED DEPARTMENTS BEEN NOTIFIED? YES NO

PRIMARY DEPARTMENT: Capital Improvement Department

SECONDARY DEPARTMENT: Streets and Maintenance Department

Revised 04/09/2021

*****REQUIRED AUTHORIZATION*****

DEPARTMENT HEAD:

Assistant Director Capital Improvement

X *Jerry DeMuro/for*

Sam Rodriguez, P.E., City Engineer

RESOLUTION

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

That the City Manager be authorized to sign an Agreement for Professional Services by and between the CITY OF EL PASO and AECOM TECHNICAL SERVICES, INC., a California USA Foreign for-Profit Corporation, for a project known as “Architect And Engineering Services for Traffic Management Center Upgrades” for an amount not to exceed \$3,518,769.71; that the City Engineer is authorized to approve additional Basic Services and Reimbursables for an amount not to exceed Fifty Thousand and No/100 Dollars (\$50,000.00) and to approve Additional Services for an amount not to exceed Fifty Thousand and No/100 Dollars (\$50,000.00) if such services are necessary for the proper execution of the project and that the increased amounts are within the appropriate budgets of the project for a total amount of \$3,618,769.71; and that the City Manager be authorized to establish the funding sources and make any necessary budget transfers and execute any and all documents necessary for the execution of the Agreement.

APPROVED THIS _____ DAY OF _____ 2022.


CITY OF EL PASO:

Oscar Leeser, Mayor

ATTEST:

Laura D. Prine
City Clerk

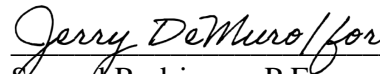
APPROVED AS TO FORM:



Roberta Brito
Assistant City Attorney

APPROVED AS TO CONTENT:

Assistant Director Capital Improvement



Samuel Rodriguez, P.E.
City Engineer

**CITY OF EL PASO AE SELECTION SCORESHEET
SOLICITATION #2022-0177R**

Rater	WALTER P MOORE	AECOM	LEE ENGINEERING
Rater 1	70	78	64
Rater 2	80	82	76
Rater 3	80	84	74
Rater 4	76	82	71
Rater 5	77	74	63
Evaluation of prior customer satisfaction with the work of the firm	10	8	9
TOTAL POINTS	393	408	357

THE STATE OF TEXAS)
)
COUNTY OF EL PASO)

**AN AGREEMENT FOR
PROFESSIONAL SERVICES**

This Agreement is made this ____ day of _____, 2022 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 AECOM Technical Services, Inc., a California USA Foreign For-Profit Corporation , hereinafter referred to as the “**Consultant**”.

WHEREAS, the Owner intends to engage the Consultant to perform professional services for the project known as “Traffic Management Center Upgrades”, hereinafter referred to as the “**Project**”, as further described in **Attachment “A”**; and

WHEREAS, 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 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”	Insurance Certificate

**ARTICLE II.
PROJECT**

2.1 The Owner hereby agrees to retain the Consultant and the Consultant agrees to perform the services identified in this Agreement 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 The Consultant shall comply with the City of El Paso Capital Improvement Department Construction Document Guidelines in effect on the execution date of this Agreement in the performance of the services requested under this Agreement. Such Guidelines are available in the Capital Improvement Department.

2.3 The Consultant shall serve as the Owner’s professional representative for the construction 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 Project’s the 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 (5) working day 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 \$3,518,769.71 for all basic services and reimbursables performed pursuant to this Agreement.

The City Engineer may, without further authorization from the City Council and in a form approved by the City Attorney, increase the total payment identified for all basic services and reimbursables performed pursuant to this Agreement in an amount not to exceed \$50,000, if such services are necessary for proper execution of the Project and the increased amounts are within the appropriate budget identified for the identified Project.

In addition, if authorized in advance by the City Engineer, in a form approved by the City Attorney, the Consultant may perform such Additional Services as also enumerated within **Attachment “C”** in an amount not to exceed \$50,000, if such services are necessary for proper execution of any identified Projects and the increased amounts are within the appropriate budget identified for the identified Projects. Additional Services exceeding \$50,000 must have prior approval by City Council through written amendment to this Agreement.

The parties agree and understand that all fees and compensation to the Consultant shall only become due and payable in accordance with the terms of this Agreement and the fees to be charged for the Project shall be pursuant to the Consultant’s fee proposal for such Basic and Additional Services at the rates which is attached hereto as **Attachment “B”**. Payments to the Consultant shall be made pursuant to **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”**.

3.3 CONSULTANT’S INVOICES. The Consultant shall bill the Owner not more often than monthly, through written invoices pursuant to **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 (90) 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 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 the Project. 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 AND TIME. The Consultant acknowledges that the total project budget for the Project allocates is \$3,518,769.71, 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”**.

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 FOR FAILURE TO COMPLY WITH SUBCHAPTER J, CHAPTER 552, GOVERNMENT CODE. The requirements of subchapter J, Chapter 552, Government Code, may apply to this Contract and the Contractor or vendor agrees

that the Contract can be terminated if the contractor or vendor knowingly or intentionally fails to comply with a requirement of that subchapter.

4.3.4 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 procure and maintain insurance coverage as required herein and attached in **Attachment “E”**. 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**
 - \$1,000,000.00 Per Occurrence
 - \$1,000,000.00 Products/Completed Operations
 - \$1,000,000.00 Personal and Advertising Injury

- 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 \$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 Agreement.

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.

5.2 INDEMNIFICATION. TO THE FULLEST EXTENT PERMITTED BY LAW, CONSULTANT SHALL INDEMNIFY HOLD HARMLESS, AND DEFEND 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 ANY NEGLIGENT ACT OR OMISSION, INTENTIONAL TORT, INTELLECTUAL PROPERTY INFRINGEMENT, OR FAILURE TO PAY A SUBCONTRACTOR OR SUPPLIER COMMITTED BY CONSULTANT OR CONSULTANT'S OFFICERS, DIRECTORS, PARTNERS, AGENTS, CONSULTANTS OR EMPLOYEES. 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.

**ARTICLE VI.
FEDERAL AND STATE PROVISIONS**

6.1 COMPLIANCE WITH APPLICABLE LAWS – FEDERAL AND STATE 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 and state funds and nondiscrimination in the administration of contracts which are funded, in whole or in part, with federal and state 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 and state 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 (FAA) through a Grant Agreement or Cooperative Agreement with the Owner, as further described in Attachment “F”.

--The Texas Department of Transportation through an 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 and state 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 will be identified pursuant to the federal funding requirements for an individual task order 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 Agreement.

The Consultant 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.

6.3 TITLE VI OF THE CIVIL RIGHTS ACT OF 1964, 78 STAT.252, 42 U.S.C. 2000D TO 2000D-4 AND TITLE 49, CODE OF FEDERAL REGULATIONS, DEPARTMENT OF TRANSPORTATION.

During the performance of this contract, Consultant, for itself, its assignees and successors in interest (hereinafter referred to as the "Consultant") agrees as follows:

- (1) **Compliance with Regulations:** Consultant shall comply with the Regulations relative to nondiscrimination in Federally-assisted programs of the Department of Transportation (hereinafter, "DOT") Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.
- (2) **Nondiscrimination:** Consultant, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. ADP shall not participate either directly or indirectly in the discrimination prohibited by section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the

Regulations.

- (3) **Solicitations for Subcontractors, Including Procurements of Materials and Equipment:** In all solicitations either by competitive bidding or negotiation made by Consultant for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by Consultant of Consultant's obligations under this contract and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin.
- (4) **Information and Reports:** Consultant shall provide all information and reports required by the Regulations or directives issued pursuant thereto, and shall permit access to its books, records, accounts other sources of information, and its facilities as may be determined by Client to be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of Consultant is in the exclusive possession of another who fails or refuses to furnish this information Consultant shall so certify to Client, as appropriate, and shall set forth what efforts it has made to obtain the information.
- (5) **Sanctions for Noncompliance:** In the event of Consultant's noncompliance with the nondiscrimination provisions of this contract, the Client shall impose such contract sanctions as it may determine to be appropriate, including but not limited to:
 - a. Withholding of payments to the Consultant under the contract until the Consultant complies, and / or
 - b. Cancellation, termination or suspension of the contract in whole or in part.
- (6) **Incorporation of Provisions:** Consultant shall include the provisions of paragraphs (1) through (6) in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directive issued pursuant thereto. Consultant shall take such action with respect to any subcontract or procurement as Client may direct as a means of enforcing such provisions including sanctions for non-compliance: Provided, however, that in the event a Consultant becomes involved in, or is threatened with litigation with a subcontractor or supplier as a result of such direction, the Consultant may request Client to enter into such litigation to protect the interests of Client and in addition, Consultant may request the United States to enter into such litigation to protect the interests of the United States.

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 prudent considering the ordinary professional skill and care of a competent engineer or architect, 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.

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 with the professional skill and care ordinarily provided by competent engineers or architects practicing under the same or similar circumstances and professional license and as expeditiously as is prudent considering the ordinary professional skill and care of a competent engineer or architect 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.

7.3.1 Errors and Omissions on Design: The Consultant shall make revisions to the work authorized which are necessary to correct the Consultant errors and omissions appearing therein, when required to do so by the Owner. No additional compensation shall be paid for this work.

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 has 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, other than the construction of the Project, 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, 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 (limited to Consultant's office hours) and places upon reasonable notice.

7.6 CONTRACTING INFORMATION

The Contractor must preserve all contracting information related to this Contract as provided by the records retention schedule requirements applicable to the City for the duration of this Contract. Contractor will promptly provide the City any contracting information related to this Contract that is in the custody or possession of the Contractor on request of the City. On completion of this Contract, Contractor will either provide at no cost to the City all contracting information related to this Contract that is in the custody or possession of the Contractor or preserve the contracting information related to this Contract as provided by the records retention requirements applicable to the City.

7.7 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.

7.8 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.

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

7.10 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.

7.11 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.

7.12 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
 P. O. Box 1890
 El Paso, Texas 79950-1890

With a Copy to: The City of El Paso
 Attn: City Engineer
 P. O. Box 1890
 El Paso, Texas 79950-1890

To the Consultant: AECOM TECHNICAL SERVICES, INC.
 ATTN: MARIBEL CHAVEZ, P.E.
 801 Cherry St., Suite 1050
 Fort Worth, TX 76102

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

7.13 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.

7.14 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.


7.15 TEXAS GOVERNMENT CODE. In accordance with Chapter 2274 of the Texas Government Code, as amended from time to time, the Consultant represents and warrants to the Owner the following: (1) the Consultant does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association; and (2) the Consultant will not discriminate during the term of this Agreement against a firearm entity or firearm trade association.

WITNESS THE FOLLOWING SIGNATURES AND/OR SEALS:

CITY OF EL PASO:


Tomás González
City Manager

APPROVED AS TO FORM:



Roberta Brito
Assistant City Attorney

APPROVED AS TO CONTENT:



Samuel Rodriguez, P.E.
City Engineer

ACKNOWLEDGMENT

THE STATE OF TEXAS §
§
COUNTY OF EL PASO §

This instrument was acknowledged before me on this _____ day of _____, 2022, by **Tomás González**, as **City Manager** of the **City of El Paso, Texas**.

Notary Public, State of Texas

My commission expires:

(Signatures begin on following page)

CONSULTANT:

By: Maribel Chavez, P.E.
 Name: Maribel Chavez
 Title: Principal in Charge

ACKNOWLEDGEMENT

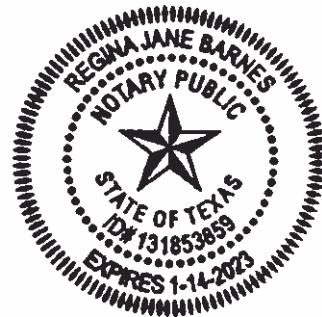
THE STATE OF Texas §
 COUNTY OF Dallas §

This instrument was acknowledged before me on this 22 day of April, 2022,
 by Maribel Chavez, PE Principal -in-Charge, on behalf of Consultant.

Regina Barnes
 Notary Public, State of Texas

My commission expires:

01-14-2023



ATTACHMENT "A"
SCOPE OF SERVICES

EXHIBIT A

SERVICES TO BE PROVIDED BY THE CITY OF EL PASO

Subject to availability, the services to be provided or performed by the City of El Paso will include, but not be limited to, the following items:

- A. Name, address and phone number of the City's Project Manager.
- B. As-builts, plans, accident data, and any documentation which would assist in the completion of the project.
- C. Review recommendations offered by the Engineer, and approve or reject any or all work performed under this project.
- D. The City of El Paso will provide a GIS inventory identifying major ITS devices components, and communication protocol and medium. Data will include
 - City of El Paso Traffic Signal cabinets, including detection and comm. sys.
 - City of El Paso CCTV Camera sites
 - City of El Paso DMS sites
- E. Periodically review progress of work.
- F. Internal coordination with applicable City Departments when necessary.

EXHIBIT B

SERVICES TO BE PROVIDED BY THE ENGINEER

The work to be performed by the Engineer consists of providing engineering services required for performing feasibility study and plan sheet, specification and estimate for this Traffic Management Center Upgrades project.

This includes evaluating ITS technology used to control and communicate with traffic signal lights, adaptive technology, emergency preemption and mass transit priority. Field investigations will be necessary to evaluate any new construction needs to accommodate the new equipment footprint.

More detailed evaluation of the latest technology will include:

-Ethernet/IP-based communications to all traffic elements (Fiber Optic / Wireless / Ethernet-over-Copper)

-Evaluate and select the infrastructure to support next generation transportation technologies.

1. Connected Vehicles
2. Connected vehicle infrastructure
3. Autonomous vehicle
4. Internet of things

-Latest Advanced Traffic Management Systems

1. Traffic management system/controller software
2. Servers (hardware/software)
3. Traffic Signal simulating/testing equipment
4. TMC/Server room heating/cooling equipment
5. Computers at control console
6. Field communications interface equipment

-Latest Advanced Traffic Management Systems

-Latest Advanced Transportation Controllers

-Adaptive Traffic Control Systems (ATCS)

-Multi-Modal Transportation Solutions to include the following

1. Transit signal priority for mass transit vehicles
2. Pre-emption for Emergency Vehicles
3. Bicyclist
4. Pedestrian

-Hybrid or high resolution vehicle detection technologies (Radar, Video, microwave)

-Changeable Message Signs (CMS)

-Traffic Signals Division's Mini TMC at Building 8 upgrade:

1. Laptops with all software needed for the technicians to program and troubleshoot cabinets on the field (video detection, audible pedestrian buttons, bike detection)
2. Remote laptops or remote access for monitoring of system after hours of work (weekends, holidays)
3. Electronic testing equipment for the new system equipment repairs (controller modem cards, communication equipment, surface mount de-soldering – solder workstations)
4. Equipment to troubleshoot communications between TMC and field Cabinets (fiber OTDR, fiber optics splicer, copper system, wireless system and all necessary tools needed) to maintain a reliable operation of the entire system.

DESIGN CRITERIA. The Engineer shall prepare all work in accordance with the latest version of applicable City procedures, specifications, manuals, guidelines, standard drawings, standard specifications or previously approved special provisions and special specifications to include the *Roadway Design Manual*, *Hydraulic Design Manual*, the *Texas Manual on Uniform Traffic Control Devices (TMUTCD)*, *Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges*, *Plans Specifications and Estimates (PS&E) Preparation Manual*, *Traffic Signals Manual*, *Highway Illumination Manual*, *Procedures for Establishing Speed Zones*, *Transportation Research Board (TRB) Highway Capacity Manual*, *Institute of Transportation Engineers (ITE) Trip Generation Manual*, *American with Disabilities Act Accessibility Guidelines (ADAAG)*, the *Texas Accessibility Standards (TAS)*, the *American Association of City Highway and Transportation Officials (AASHTO) Guide for the Development of Bicycle Facilities*, *National Electrical Code (NEC)*, and other City approved manuals. When design criteria are not identified in City manuals, the Engineer shall notify the City and refer to the AASHTO, *A Policy on Geometric Design of Highways and Street* (latest edition).

RIGHT-OF-ENTRY AND COORDINATION. The Engineer shall notify the City and secure permission to enter private property to perform any surveying, engineering, or other activities needed for the City's right-of-way (ROW). In accordance with the City's policy, the Engineer shall not commit acts which would result in damages to private property, and the Engineer shall make every effort to comply with the wishes and address the concerns of affected private property owners. The Engineer shall contact each property owner prior to any entry onto the owners' property, and shall request concurrence from the City prior to each entry.

1. PROJECT MANAGEMENT

Project Management and Administration

The Engineer, in association with the City's Project Manager shall be responsible for directing and coordinating all activities associated with the project to comply with City policies and procedures, and to deliver that work on time.

Project Management and Coordination. The Engineer shall coordinate all subconsultant activity to include quality and consistency of plans and administration of the invoices and monthly progress reports. The Engineer shall coordinate with necessary local entities.

The Engineer shall:

1. Kick-off Meeting with the City of El Paso
2. Prepare monthly written progress reports for each project.
3. Develop and maintain a detailed project schedule to track project conformance to Exhibit C, Work Schedule, for each work authorization. The schedule submittals shall be in a hard copy and electronic format.
4. Meet on a biweekly basis with the City to review project progress.
5. Prepare, distribute, and file both written and electronic correspondence.
6. Prepare and distribute meeting minutes.
7. Document phone calls and conference calls as required during the project to coordinate the work for various team members.

2. TMC UPGRADES PHASE 1 - FEASIBILITY STUDY

The Engineer is responsible for meeting with stakeholders to obtain all necessary data, standards and specifications such as the City of El Paso, Federal, and State standards, among others.

1. CITY OF EL PASO ITS INVENTORY

System Inventory. The Engineer shall conduct a City of El Paso ITS inventory identifying major ITS devices components, and communication protocol and medium. Survey will be performed at the following locations.

- City of El Paso communication Hub cabinets
- City of El Paso TMC
- City of El Paso mini TMC at building 8.

Communication medium investigation. The Engineer shall investigate communication medium used on different ITS systems i.e. Copper, fiber optics, wireless. The Engineer shall also investigate communication protocol i.e. RS-232, Ethernet or SONET will be determined based on ITS

inventory and as-built document review.

Backbone data communication investigation. The Engineer will analyze existing communication system and will investigate TxDOT future communication plans for ease of integration.

City of El Paso ITS GIS map. Information collected in the during the inventory and investigation will be used to populate a GIS map depicting existing ITS device type and communication system associated with it.

2. ITS MARKETPLACE ASSESSMENT.

The Engineer shall review the recent Regional ITS Architecture completed in 2020, identify ITS technology and conduct an ITS marketplace assessment.

The Engineer shall identify technology for:

- Traffic Signal Systems and servers with Connected/Automated features
- Vehicle detection systems, i.e. video, microwave, radar, other
- Emergency and transit pre-emption/priority systems
- School zone flashers
- CCTV Cameras or systems with video analytics
- Disaster/Recovery server technology
- Three other ITS emerging technologies to be determined at a later date

The Engineer shall:

1. Identify existing technologies and relevant applications from a vendor standpoint. Up to five vendors per technology. Conduct research to determine which vendors and manufacturers supply equipment or material, that currently serves the industry, which are relevant to the standard sheet or specification being developed. Contact all applicable vendors, and meet in person with vendors, if necessary, as determined by the City. Minimize travel; where possible by meeting with vendors via webinar. The Engineer shall submit relevant vendor documentation to the City, including any vendor product data sheets. The City's reserves the right to attend any meetings with vendors.

2. Develop a matrix in Microsoft Excel for each standard sheet or specification which describes all operating requirements in rows, and estimated cost breakdowns of each vendor and option in columns. If cost breakdowns of individual options are not available, provide cost estimates of the base model for each major component as applicable. Such parameters could include maintenance considerations, technology and

integration considerations, constructability, compatibility, considerations for future upgrades, operational considerations for the traveling public, etc. The matrix shall describe in full detail which options are relevant to which situations, and the costs/benefits of each option. Submit the matrix spreadsheet to the City for review and comment.

3. Conduct a literature review of applicable subject matter. This literature review may consist of, but is not limited to, other City departments of transportation, universities, and institutes in the Excel spreadsheet created above.

4. The Engineer in coordination with the City shall select two cities of similar size to be used as a benchmarked with this similar technology and develop a comparison matrix on system size and features.

The Engineer shall deliver a technical report comparing different features and approximate deployment cost per unit.

3. MINI TMC AND NETWORK UPDATES

The Engineer shall review existing network as-builts and proposed network improvements from TxDOT that affect the City ITS system. The Engineer shall make recommendations on network improvement to make the mini TMC on building 8 completely independent from the City of El Paso TMC.

Mini TMC improvements shall include:

- Remote access to Mini TMC software
- New servers
- New laptops
- New cabinet and consoles

Recommendation shall be discussed and coordinated with the City of El Paso and shall be documented in a technical report with associated order of magnitude cost.

The Engineer shall coordinate virtual visits with five other TMCs of similar size as a scanning tour. The goal will be to share stories and lessons learned between peers. These five virtual visits could be changed to three in person visits at the discretion of the City PM.

The Engineer shall deliver a technical report on key elements of each virtual visit.

4. TMC OPERATION ROOM UPGRADES

The Engineer shall review existing HVAC system and recommend improvements to better regulate temperature inside the server room and at TMC operator room.

TMC upgrades shall include:

- Remote access to TMC software
- New servers
- New or reconfigured backbone ITS field communication equipment
- ITS business network expansion to provide Control of CCTV Cameras from the Emergency Operation Center (EOC) and 911 Fusion Center for incident management
- Coordination of technology with POE border crossing cameras, wait time collection devices, and dynamic message signs at main arterials leading to the Ports of Entry through the COEP International Bridges Department.
 - This shall include integration of ITS listed above from the POE to the City TMC.
 - Integration of CCTV cameras managed or controlled by the City TMC to be shared with the City POE for traffic monitoring purposes.
 - This may include third party systems such as TxDOT, CBP and Fusion Center.

The Engineer will provide system integration recommendation and to the extent possible as per third party permits.

The Engineer will assist the City of El Paso on developing exhibits required for Mutual Use Agreements between the City and third party.

- Coordination with City of El Paso IT Department and follow IT standards for hardware and software
- Improvement to HVAC system

Recommendation shall be discussed and coordinated with the City of El Paso and shall be documented in a technical report with associated order of magnitude cost.

5. ITS PLANNING FOR TMC UPGRADES PHASES 2 THRU 5

The Engineer shall use the information collected on steps 1 thru 4 above and coordinate with the city on prioritizing the improvements for TMC Upgrades phases 2 thru 5.

The Engineer shall use the City of El Paso ITS GIS map to plan ITS deployments based on priority and budget. The Engineer shall have a workshop with the City of El Paso to discuss proposed deployments.

The Engineer shall develop a simple matrix identifying ITS technology to be deployed at each of TMC Upgrade Phases

Deliverables:

- City of El Paso ITS Inventory in GIS
- Technical reports on ITS Marketplace assessment
 - Traffic Signal Systems
 - Vehicle Detection
 - Pre-emption/Priority Systems
 - School Zone Flasher Systems
 - Video Analytics Systems
 - Disaster/Recovery technology for network servers
 - Three other ITS emerging technologies to be determined
- Technical report on Mini TMC proposed upgrades and approximate construction cost
- Technical report on TMC Operation Room Upgrades
- City of El Paso ITS proposed improvements in GIS
- Matrix identifying ITS technology to be deployed in phased 2 thru 5
- Propose scope and project limits for construction phases 2-5 including improvements to TMC and mini-TMC.

3. TMC UPGRADES PHASE 2 - 5 PLAN SHEET SPECIFICATION AND ESTIMATE

Environmental Clearance

The Engineer shall prepare technical reports and documentation for environmental services in the form of a report, checklist, form, or analysis detailing resource-specific studies in compliance with TxDOT Environmental Compliance Toolkit requirements. Through coordination with the City and TxDOT, it will be determined what technical reports and documentation will be necessary for the project. Technical reports and documentation prepared for the State shall be sufficiently detailed to provide satisfactory basis for thorough review by the State, The Federal Highway Administration (FHWA), and (where applicable) agencies with regulatory oversight. All deliverables shall meet regulatory requirements for legal sufficiency and shall adhere to the requirements for reports enumerated in the State's National Environmental Policy Act of 1969 (NEPA) Memorandum of Understanding (MOU). Environmental technical reports and documentation shall include appropriate NEPA or federal regulatory language in addition to the purpose and methodology used in delivering the service and shall include sufficient information to determine the significance of impacts. Minimum deliverables for all technical reports will include Draft and Final documents as well as Comment Matrices.

It is assumed that:

- No parklands, recreational areas, or trails would be within the project area.

- No Air Quality Analysis, Traffic Noise Analysis, or Hazardous Materials ISA would be required.
- No USACE Pre-Construction Notification would be required.
- No Public Involvement is included.

Design:

Design shall meet all City, State, and Federal requirements and local regulations and ordinances.

The Engineer shall submit a turnkey design product. The Engineer shall follow State design specifications and procedures for the development of the specified project and comply with all laws, regulations and policies set by the City of El Paso and the State of Texas.

The Engineer shall comply with the City of El Paso Capital Improvement Department Drawing Guidelines.

The Engineer shall provide design services, contract documents, estimates and specifications and prepare construction contracts and an Engineer's Report, if requested.

The Engineer shall prepare both design and performance specifications. The Engineer shall provide a guide schedule of testing and sampling meeting current TxDOT specifications. Buy America must be enforced during the design process.

The Engineer shall respond to comments regarding constructability, operability reviews on proposed construction projects and assist the City with but not limited to the following items: review of proposed construction projects including such items as detail and cut omissions and inconsistencies between plans and specifications, vague or ambiguous notes, references, and lack of coordination between the drawings of all disciplines involved in the project.

Utility Coordination:

The firm shall be responsible to coordinate design efforts with all affected utility companies and interested parties. The purpose is to minimize utility relocation without compromising design standards. The firm shall verify utility lines, valves, covers, manholes, etc. from the different utility companies and interested parties during the preliminary design phase. All existing utility structures shall be shown on the preliminary design plan submittal as provided in 811 call and utility coordination meetings. The firm shall meet with all affected utility companies and interested parties to discuss proposed design. Based on these coordination meetings and correspondence that is sent between the firm and utility companies and interested parties the need and extent of relocation shall be determined. If a dispute arises, the firm shall immediately setup a meeting between the City of El Paso Project Manager and the utility company or interested parties to resolve the dispute. The firm on behalf of the City of El Paso shall request from all utility companies or interested parties that they relocate all lines that conflict with new

improvements. However, EPWU can request that the City of El Paso include as part of the street and drainage improvement bid package the relocation of their utility lines provided that the utility company or interested parties signs an agreement with the City and funding is provided. The firm shall coordinate this effort with the utility companies and interested parties and advise them of the City of El Paso policy to minimize pavement cuts on new roadways. All correspondence and meeting minutes shall be submitted to the City of El Paso when each phase is due. Construction documents shall clearly show all existing and proposed utility lines and utility company or interested party contacts. All documents and coordination efforts by the firm shall be complete by or before the final design phase due date. The firm shall submit all utility clearance letters from each utility company or interested parties by or before the 90% design phase. If relocations cannot occur before construction consultant must incorporate into construction phasing and coordinate relocation date.

30% Design:

The Engineer shall submit the following preliminary design submittal, as applicable.

- Coversheet (90% complete)
- Quantity Summary Sheet (100% complete)
- Electrical Plan and Details (50% complete)
- Mechanical Plan and Details (50% complete)
- Plumbing Plan and Details (50% complete)
- Demolition Plan, if needed (90% complete)
- Construction Notes (50% complete)
- Storm Water Pollution Prevention Plan (75% complete)
- Typical Construction Details (75% complete)
- List of Governing Specs (100% complete)
- TxDOT Form 1002
- TxDOT Form 2443
- Performance End Date Schedule
- General Notes
- Engineer's Estimate and TxDOT form Estimate
- Utility Status and coordination report

60% Design:

The Engineer shall submit the following pre-final design phase submittal, as applicable:

- Coversheet (100% complete)
- Quantity Summary Sheet (100% complete)
- Architectural Plan and Details (75% complete)
- Electrical Plan and Details (75% complete)
- Mechanical Plan and Details (75% complete)
- Plumbing Plan and Details (75% complete)
- Demolition Plan, if needed (100% complete)
- Construction Notes (90% complete)

City of El Paso TMC Upgrades

- Storm Water Pollution Prevention Plan (100% complete)
- Typical Construction Details (100% complete)
- Special Construction Details (75% complete)
- Traffic Control Line Diagram and applicable standards (75% Complete)
- Outline of Specs (100% complete)
- List of Governing Specs (100% complete)
- TxDOT Form 1002
- TxDOT Form 2443
- TxDOT Form 2229
- General Notes
- Engineer's Estimate and TxDOT form Estimate
- 30% complete action items report and complete review comment forms
- Engineer's Seal
- Contract time determination
- Certifications (ROW, Utilities, etc.)
- Temporary Road Closure Request
- Redlines showing quality control
- Response Comment Matrix
- Performance End Date Schedule
- Utility Status and coordination report
- Environmental Doc
- TDLR Registration if Applicable

95% Design:

The Engineer shall submit, at a minimum, the following final design phase submittal, as applicable:

- Cover Sheet (100% complete)
- Quantity Summary Sheet (100% complete)
- Architectural Plan and Details (100% complete)
- Electrical Plan and Details (100% complete)
- Mechanical Plan and Details (100% complete)
- Plumbing Plan and Details (100% complete)
- Horizontal Control Plan (100% complete)
- Demolition Plan (100% complete)
- Construction Notes (100% complete)
- Storm Water Pollution Prevention Plan (100% complete)
- Typical Construction Details (100% complete)
- Special Construction Details (100% complete)
- Traffic Control Line Diagram and applicable standards (100% Complete)
- Outline of Specifications (100% complete)
- List of Governing Specs (100% complete)
- TxDOT Form 1002

City of El Paso TMC Upgrades

- TxDOT Form 2443
- TxDOT Form 2229
- General Notes
- Engineer's Estimate and TxDOT form Estimate
- Environmental Scope Development Tool
- 60% complete action items report and complete review comment forms
- Engineer's Seal
- Contract time determination
- Certifications (ROW, Utilities, etc.)
- Temporary Road Closure Request
- Performance end date
- Redlines showing quality control
- Response Comment Matrix
- Utility status and coordination report
- Environmental Doc
- TDLR Registration if Applicable

100% Design:

The Engineer shall re-submit the 95% documentation with City and TxDOT's comments addressed.

The Engineer shall provide an electronic copy of all approved and applicable environmental documents.

Deliverables: (Payment for Design Deliverables is Lump Sum):

- PS&E for TMC Upgrades Phase 2
 - 30% Submittal
 - 60% Submittal
 - 95% Submittal
 - 100% Submittal
- PS&E for TMC Upgrades Phase 3
 - 30% Submittal
 - 60% Submittal
 - 95% Submittal
 - 100% Submittal
- PS&E for TMC Upgrades Phase 4
 - 30% Submittal
 - 60% Submittal
 - 95% Submittal
 - 100% Submittal
- PS&E for TMC Upgrades Phase 5
 - 30% Submittal
 - 60% Submittal
 - 95% Submittal
 - 100% Submittal

Bidding and Construction: (Bidding and Construction Services are paid based on Time and Materials):

The Engineer shall provide constructability, ability to bid, operability reviews on proposed construction projects. The review will cover such items as detail and cut omissions and inconsistencies between plans and specifications, vague or ambiguous notes and references and lack of coordination between drawings of all disciplines involved in the project.

The Engineer shall submit the following for bidding both in hard copy and in electronic format:

- Full and complete sealed set of drawings
- Full and complete sealed set of technical specifications and list of governing specs (latest TxDOT specifications) both in hard copy and electronic format
- Detailed scope of work both in hard copy and electronic format
- Detailed unit price bid proposal form, both in hard copy and electronic format
- Detailed real-world value cost estimate
- Construction time determination schedule

During the bidding process, the Engineer shall respond to all questions from prospective bidders, attend a pre-bid conference, and if required prepare addendums. The bids shall be advertised as a unit price contract.

After bid opening, the Engineer shall provide all documentation required for State concurrence, these items include:

- Engineer's Cost Estimate line item review
- Engineer's Bid Tab review and recommendation letter

During the construction phase, the Engineer shall assist the City, on a time and materials basis, with but not limited to the following items:

- Responding to all questions from the contractor (requests for information, RFIs)
- Providing advice and recommendation to the Owner and other technical engineering functions and analysis as may be required by the City
- Reviewing contractor technical submittals
- Participate in "punch list" inspection and provide punch list to Owner
- Produce and provide a set of reproducible (11"x17") "as-built" drawings of new construction in electronic format or hard copy if requested

Deliverables:

- Bid-Package for TMC Upgrades Phase 2
- Bid-Package for TMC Upgrades Phase 3
- Bid-Package for TMC Upgrades Phase 4
- Bid-Package for TMC Upgrades Phase 5

Construction Observation:

The Engineer shall provide the following and upon request:

- Designate and assign a project representative, subject to the approval of the City, who will serve as the point of contact during the on-site observation and inspection of the construction work in progress and to ascertain that the work is properly executed in conformance with the drawings and specifications.
- The project representative will be responsible for the complete coordination of work developed under each assignment. Work will be accomplished with adequate controls and review procedures to eliminate conflicts, errors, and omissions, and to ensure the technical accuracy of all design information.
- Attend the weekly construction meetings as requested, to be scheduled by the City Project Manager. Other periodic meetings shall be held whenever requested by the City for discussion of questions and problems relating to the work being performed by the Engineer. The Engineer shall be required to attend and participate in all design conferences pertinent to the work being performed.
- Respond to Requests for Information (RFIs) within three (3) business days
- Conduct project site visits and produce a project observations report within three (3) business days of the project site visit as requested by the Project Manager.
- Review and approve material sourcing and any material updates meeting current TxDOT specifications.
- Review and approve contractor shop drawings and material submittals and make recommendations within three (3) business days at a maximum or within a schedule previously agreed established by the City Project Manager and with the final approval by the City.
- Prepare cost estimates for street and drainage improvements, park and site improvements, and other project estimates as requested when the contractor submits a change order.
- Provide as-built drawings of new construction for each phase.
- Provide other civil engineering functions and analysis as may be required by the City as unforeseen conditions may occur.
- Participate in punch list inspections as scheduled by the City Project Manager
- Provide a letter at the end of the construction for each phase to certify that the project was constructed according to project requirements, plans, and specifications. During construction, project closeout for each phase the Engineer shall produce and provide a set of “as-built” (11”X17”) in electronic format, AutoCAD file, and USB flash drive displaying the Engineer name and project.

**ATTACHMENT “B”
CONSULTANT’S FEE PROPOSAL AND HOURLY RATES**

Summary

Firm	Labor Cost	Expenses	Total
AECOM Technical Services, Inc.	\$ 3,462,511.71	\$ 6,406.00	\$ 3,468,917.71
Parkhill	\$ 48,700.00	\$ 1,152.00	\$ 49,852.00
Total	\$ 3,511,211.71	\$ 7,558.00	\$ 3,518,769.71

Total cost reflects agreed upon escalation rates

Labor & Expenses Summary Task

Task	AECOM Technical Services, Inc.		Parkhill		Total	
	Hours	Labor Cost	Hours	Labor Cost	Hours	Loaded Labor
Project Management and Administration	1,742	\$ 255,781.88	26	\$ 5,028.00	1,768	\$ 260,809.88
TMC Upgrades Phase 1 - Feasibility Study	6,618	\$ 1,091,339.18	29	\$ 6,516.00	6,647	\$ 1,097,855.18
PS&E for TMC Upgraded Phase 2	2,502	\$ 364,000.42	154	\$ 24,076.00	2,656	\$ 388,076.42
Bidding and Construction Phase Services for TMC Upgraded Phase 2	304	\$ 49,443.36	72	\$ 13,080.00	376	\$ 62,523.36
PS&E for TMC Upgraded Phase 3	3,110	\$ 451,107.48	0	\$ -	3,110	\$ 451,107.48
Bidding and Construction Phase Services for TMC Upgraded Phase 3	348	\$ 56,638.52	0	\$ -	348	\$ 56,638.52
PS&E for TMC Upgraded Phase 4	3,270	\$ 487,035.42	0	\$ -	3,270	\$ 487,035.42
Bidding and Construction Phase Services for TMC Upgraded Phase 4	362	\$ 60,903.26	0	\$ -	362	\$ 60,903.26
PS&E for TMC Upgraded Phase 5	3,866	\$ 578,612.61	0	\$ -	3,866	\$ 578,612.61
Bidding and Construction Phase Services for TMC Upgraded Phase 5	400	\$ 67,649.58	0	\$ -	400	\$ 67,649.58
Expenses		\$ 6,406.00		\$ 1,152.00		\$ 7,558.00
Total	7,498	\$ 3,468,917.71	0	\$ 49,852.00	7,498	\$ 3,518,769.71

ATTACHMENT B - FEE SCHEDULE**SPECIFIED RATE AND LUMP SUM (LS) PAYMENT BASIS**

LS payments are based upon the Table of Deliverables (TOD) as identified in the Work Authorization (WA)

PRIME PROVIDER NAME:	AECOM Technical Services, Inc.		
DIRECT LABOR			
LABOR/STAFF CLASSIFICATION	YEARS OF EXPERIENCE	HOURLY BASE RATE	HOURLY CONTRACT RATE
Principal	20+	\$98.52	\$254.55
Project Manager	20+	\$89.28	\$230.69
QC Reviewer / QA Manager	20+	\$80.68	\$208.47
Engineer - Senior	15+	\$78.61	\$203.12
Engineer (Design)	5 to 10	\$57.93	\$149.68
Engineer (Project)	10 to 15	\$62.07	\$160.37
Engineer-In-Training	1 to 5	\$42.77	\$110.50
Engineer Technician	5 to 15	\$42.20	\$109.05
CADD Operator	5 to 15	\$37.24	\$96.22
CADD Operator - Senior	15+	\$50.25	\$129.83
Administrative/Clerical		\$28.96	\$74.84
Traffic Modeler - Senior	15+	\$80.68	\$208.47
Traffic Modeler	5 to 15	\$49.18	\$127.07
Project Controller		\$37.42	\$96.68
Project Controller - Senior		\$47.04	\$121.54
Transportation Planner - Senior	15+	\$82.75	\$213.81
Transportation Planner		\$68.27	\$176.40
Transportation Planner - Junior	1 to 5	\$40.63	\$104.98
GIS Operator	5 to 15	\$40.55	\$104.77
Senior Engineering Tech	15+	\$47.90	\$123.77
Junior Engineering Tech	0 to 5	\$37.01	\$95.63
Senior Traffic Tech	15+	\$49.71	\$128.43
Traffic Tech	5 to 15	\$44.59	\$115.22
Junior Traffic Tech	0 to 5	\$39.14	\$101.14
Technical Advisor - Senior	20+	\$125.00	\$322.98
INDIRECT COST RATE:	130.70%		
PROFIT RATE:	12.00%		

Contract rates include labor, overhead, and profit.

Lump Sum Payment Basis - Invoice by deliverable, according to the TOD. A copy of the TOD shall be included with each Invoice Package and is payable by each deliverable and line item as identified in the TOD. Partial payments of line item are not allowed. Documentation of hours worked is not required.

Direct Expenses will be invoiced with an 10% markup

ATTACHMENT “C”
CONSULTANT’S BASIC AND ADDITIONAL SERVICES

For the “Traffic Management Center Upgrades” 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 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 oversight and management of the 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/CONCEPT 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

The Consultant shall do the following:

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

The Consultant shall do the following separately:

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

The Consultant shall do the following:

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 SCHEDULE

For the project known as “Traffic Management Center Upgrades”, hereinafter referred to as the Project, the Owner will compensate the Consultant an amount not to exceed \$3,581,769.71 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 lump sum 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.

Lump Sum Payment to Consultant

The compensation for each task described in Attachment “A”. Payment 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.

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 construction phase exceed the estimated amount, written authorization will be required prior to rendering service. Written authorization shall be only by contract amendment in accordance with the contract provisions and applicable law.

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.

The invoice must clearly identify each employee name, title, hours worked, date of performance, task or project description, rate per hours and/or cost, and office/company location.

Reimbursable Costs: Efforts must be made to secure a *reasonable* and/or lowest rate available in the marketplace.

Receipts: Legible itemized receipts are required for the following: 1) meals, 2) hotel (lodging) costs, 3) airfare travel costs, 4) parking costs, 5) automobile or equipment rental costs, 6) taxi, limousine, bus, subway, or other travel costs, 7) reproduction, 8) shipping and handling. 9) local postage/deliveries (courier services), 10) communication costs. *Tips and alcohol are not reimbursable.*

No single invoice may include items for both August and September of any given year. The Owner’s fiscal year begins on September 1st of each year and ends on August 31st of each year. The Consultant’s invoices must be separated into items that end August 31st and those that begin on Septembers 1st of any given year, to coincide with the Owner’s fiscal year.

Communications Costs: Long distance telephone calls need to be identified and strictly related to work performed under this Agreement in order to be reimbursable by the Owner. A log is preferred showing the date, person's name called, and explanation. Cell phone monthly charges are reimbursable if usage is strictly related to work performed under this Agreement. Legible itemized cell phone records are required.

Personal Automobile Mileage: Expense report must clearly identify the departure/arrival time, to/from destinations and purpose of trip.

Entertainment Costs: Entertainment costs are not reimbursable, including: 1) movie costs for "pay for view" or cable service, 2) alcohol costs, 3) monetary tips (tipping) for any and all services related to all forms of travel (and/or entertainment).

DELIVERABLE SCHEDULE

CONCEPT PHASE

The services called for in the Report Phase of this Agreement shall be completed concurrently with the preliminary design phase and five (5) copies of the Preliminary Study and Report shall be submitted within 30 consecutive calendar days following the written authorization from the Owner for the Consultant to proceed. The time frame set forth in the 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 **ten (10) copies** of any required documents and opinion of probable construction costs shall be submitted within **120 consecutive calendar days** following written authorization from the Owner for the Consultant to proceed. The time frame set forth in the written authorization from the Owner for the Consultant to proceed. If Owner does not approve the preliminary design documents, the Consultant shall furnish **five (5) copies** of the resubmitted design documents.

PHASE II—PRE-FINAL DESIGN PHASE

The services called for in **Phase II** of this Agreement shall be completed and **ten (10) copies** the required documents and services shall be submitted within **90 consecutive calendar days** following written authorization from the Owner for the Consultant to proceed. The time frame set forth in the 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 **ten (10) copies** of final design Drawings and Specifications for review and approval prior to the reproduction for bidding purposes shall be submitted within **60 consecutive calendar days** following written authorization from the Owner for the Consultant to proceed. After review, the Consultant shall submit to Owner **Three (3) copies** of the final revised design documents and specifications for final check. Upon the approval of the final design documents, the Consultant shall furnish **ten (10) copies** of the final design documents and specifications for bidding to the Owner within **60 consecutive calendar days** following written authorization from the Owner for the Consultant to

proceed. The time frame set forth in the written authorization from the Owner for the Consultant to proceed.

PHASE IV—BIDDING PHASE

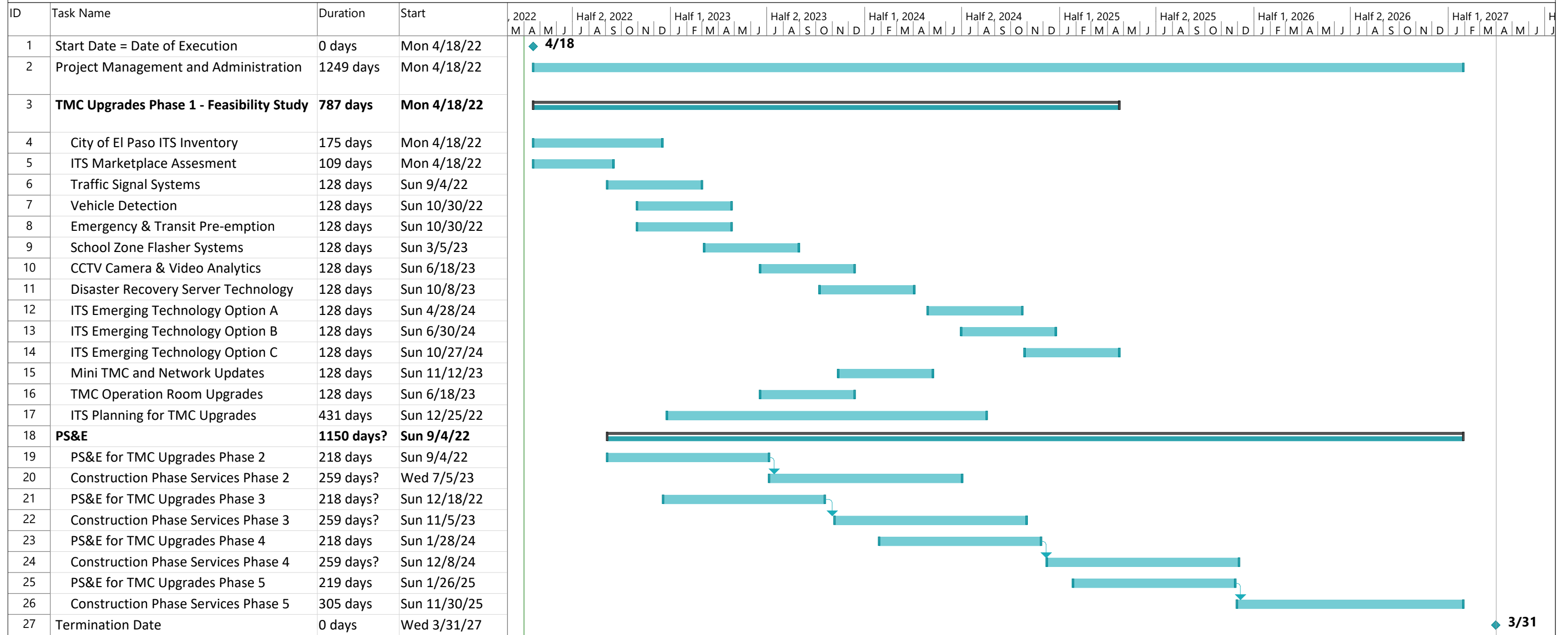
Provide services as authorized by Owner during the bid phase as described in Attachment “C” and submit **one (1) copy** of all addenda to the Owner for appropriate action within **four (4) months**.

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 **eighteen (18) months** from the date of substantial completion.

**EXHIBIT C
WORK SCHEDULE**

Prime Provider: AECOM TECHNICAL SERVICES, INC.



Project: TMC Upgrades Schedu
Date: Fri 4/1/22

Task		Project Summary		Manual Task		Start-only		Deadline	
Split		Inactive Task		Duration-only		Finish-only		Progress	
Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
Summary		Inactive Summary		Manual Summary		External Milestone			

ATTACHMENT "E" INSURANCE CERTIFICATE



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
03/24/2022

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 have ADDITIONAL INSURED provisions or 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 Marsh Risk & Insurance Services CA License #0437153 633 W. Fifth Street, Suite 1200 Los Angeles, CA 90071 Attn: LosAngeles.CertRequest@Marsh.Com CN101348564-STND-GAUJE-22-23	CONTACT NAME: Marsh Risk & Insurance Services PHONE: 213-346-5000 FAX: (A/C, Not): E-MAIL: LosAngeles.CertRequest@marsh.com ADDRESS:	INSURER(S) AFFORDING COVERAGE INSURER A : ACE American Insurance Company INSURER B : N/A INSURER C : Illinois Union Insurance Co INSURER D : SEE ACORD 101 INSURER E : INSURER F :	NAIC # 22667 N/A 27960
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COVERAGES **CERTIFICATE NUMBER:** LOS-002574082-05 **REVISION NUMBER:**

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 INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER:			H00 G72489974	04/01/2022	04/01/2023	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 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
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY			ISA H25564959	04/01/2022	04/01/2023	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	<input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below			SEE ACORD 101	04/01/2022	04/01/2023	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 2,000,000 E.L. DISEASE - EA EMPLOYEE \$ 2,000,000 E.L. DISEASE - POLICY LIMIT \$ 2,000,000
C	ARCHITECTS & ENG. PROFESSIONAL LIAB.			EON G21654693 005 "CLAIMS MADE"	04/01/2022	04/01/2023	Per Claim/Agg \$ 1,000,000 Defense Included

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES: (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 Re: AECOM Project No: 04191910. Client Reference No: #2022-0177R. Traffic Management Center Upgrades.

City of El Paso is named as additional insured for GL & AL coverages, but only as respects work performed by or on behalf of the named insured and where required by written contract.

CERTIFICATE HOLDER City of El Paso - Capital Improvement Department Attn: Gerald DeMuro 218 N. Campbell El Paso, TX 79901	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 <i>Marsh Risk & Insurance Services</i>
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