

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

AGENDA DATE: February 1, 2022

PUBLIC HEARING DATE:

CONTACT PERSON(S) NAME AND PHONE NUMBER: Sam Rodriguez, City Engineer, (915) 212-1845

DISTRICT(S) AFFECTED: ALL

STRATEGIC GOAL: Create an Environment Conducive to Strong, Sustainable, Economic Development

SUBGOAL: Grow the core business of air transportation.

SUBJECT:

A resolution that the City Manager be authorized to sign the first amendment to the Agreement for Professional Services by and between the City of El Paso and RS&H Inc, for a project known as "EPIA Runway 8R-26L Rehabilitation" for an amount not to exceed \$250,459.19 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 execution of the Agreement. Funding Source: Airport and AIP/Grant Funds

BACKGROUND / DISCUSSION:

RS&H was awarded "EPIA Runway 8R-26L Rehabilitation" on March 2, 2021. For a total of \$670,015.21. This is the first amendment to the professional services agreement. The total cost for additional services is \$250,459.19. The additional services include design of full depth reconstruction of Taxiway U to include the conversion of existing incandescent lights to LED. The additional scope is being added at the request of the FAA after completing their review of the airport's five year CIP plan.

PRIOR COUNCIL ACTION:

March 2, 2021 Award of Agreement of Professional Services to RS&H, Inc in the amount of \$670,015.21.

AMOUNT AND SOURCE OF FUNDING:

Amount: \$250,459.19

Source: FAA Grant Funds and Airport Enterprise Funds

580270 – 62335 – 3010 – 562 – G62A204002

580270 – 62330 – 3080 – 562 – G62A204002

HAVE ALL AFFECTED DEPARTMENTS BEEN NOTIFIED? YES NO

PRIMARY DEPARTMENT: Capital Improvement Department

SECONDARY DEPARTMENT: Aviation

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

DEPARTMENT HEAD:

Jerry DeMuro/for

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

RESOLUTION

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

That the City Manager, or designee, is authorized to sign a First Amendment to Agreement for Professional Services between the City of El Paso and RS&H, Inc. for the project known as “El Paso International Airport Runway 8R-26L Rehabilitation” to add additional services and increase the contract amount from an amount not to exceed \$250,459.19 to an amount not to exceed \$920,474.40. Further, that the City Engineer is authorized to approve additional basic services in an amount not to exceed an additional \$50,000. Further, that the City Engineer is authorized to approve additional services in an amount not to exceed an additional \$50,000. The City Engineer is authorized to execute any contract amendments to increase the contract amount as provided above. Further, that the City Manager, or designee, is authorized to exercise all rights and obligations under the agreement and to execute all documents necessary to effectuate the intent of this resolution.

APPROVED this _____ day of _____, 2022.

THE CITY OF EL PASO:

ATTEST:

Oscar Leeser
Mayor

Laura D. Prine
City Clerk

APPROVED AS TO FORM:

 (for)

Leslie B. Jean-Pierre
Assistant City Attorney

APPROVED AS TO CONTENT:

 for

Samuel Rodriguez, P.E.
City Engineer

FIRST AMENDMENT TO AGREEMENT FOR PROFESSIONAL SERVICES

This First Amendment to the Agreement for Professional Services (“First Amendment”), is between the City of El Paso, a municipal corporation organized and existing under the laws of the State of Texas, (“**Owner**”), and **RS&H, Inc. (“Consultant”)**, collectively referred herein as (“**Parties**”).

WHEREAS, on March 16, 2021, the parties entered into an Agreement for Professional Services (“**Agreement**”); and

WHEREAS, the Owner and Consultant desire to amend the Agreement to add an additional Scope of Services (“Attachment A”), to add to the Consultant’s Fee Proposal and Hourly Rates (“Attachment B”) and to the Consultant’s Basic and Additional Services (“Attachment C”), and to replace the Payment and Deliverables Schedules (“Attachment D”) which are all shown and attached hereto on Attachment “A-1” of the Agreement, and to increase the maximum amount under the Agreement.

The Parties agree as follows:

1. The Agreement is amended to add an additional Scope of Services (“Attachment A-1”), to add to what appears in the Agreement as the Scope of Services (“Attachment A”), the Consultant’s Fee Proposal and Hourly Rates (“Attachment B”) and the Consultant’s Basic and Additional Services (“Attachment C”), and to replace the Payment and Deliverables Schedules (“Attachment D”), attached hereto as Attachment “A-1” to this First Amendment, and to increase the maximum amount under the Agreement as shown in Attachment “A-1” attached to this First Amendment.
2. Section 3.1 (Payment to Consultant) of the Agreement is amended to read as follows:

3.1 PAYMENT TO CONSULTANT. The Owner shall pay to the Consultant an amount not to exceed **\$920,474.40** 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 **FIFTY THOUSAND AND NO/100 DOLLARS (\$50,000.00)**, 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" and Attachment “A-1” in an amount not to exceed **FIFTY THOUSAND AND NO/100 DOLLARS (\$50,000.00)**, 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 **FIFTY THOUSAND AND NO/100 DOLLARS (\$50,000.00)** 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" and "Attachment A-1".

Payments to the Consultant shall be made pursuant to Attachment "A-1".

- 3. Except as amended in this First Amendment, the Agreement remains in full force and effect.

WITNESS THE FOLLOWING SIGNATURES AND/OR SEALS:

CITY OF EL PASO:

Tomas Gonzalez
City Manager

APPROVED AS TO FORM:

APPROVED AS TO CONTENT:

 (for) _____
Leslie B. Jean-Pierre
Assistant City Attorney

 _____
Samuel Rodriguez, P.E.
City Engineer

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:

CONSULTANT:

Name: _____

Title: _____

THE STATE OF _____ §

§

COUNTY OF _____ §

This instrument was acknowledged before me on this _____ day of _____, 2022,
by _____, as _____ of Consultant.

Notary Public, State of Texas

My commission expires:

(Attachment on the following page)

ATTACHMENT A-1

EL PASO INTERNATIONAL AIRPORT



Runway 8R-26L Rehabilitation Design, Bidding, and Construction Administration Services

PROJECT PROPOSAL / SCOPE OF WORK Amendment No. 1

RS&H Project No: 223071000



RS&H, Inc.
13750 San Pedro Ave. Suite 300
San Antonio, Texas 78259
210-224-2800

TBPE Registration. No. F-3401

PROJECT PROPOSAL / SCOPE OF WORK

The text highlighted in bold herein, such as this paragraph, documents the changes in the project scope associated with Amendment No. 1. All other text is as included in the original contract.

This scope of work describes the services to be provided by RS&H, Inc. (“Consultant”) to the El Paso International Airport (“EPIA” or “Client”) for professional design, bidding, and construction administration services of the Runway 8R-26L Rehabilitation (“Project”) in the City of El Paso, Texas (“City”), including project schedule and project fees.

1. Project Description

The project generally consists of the scope elements listed below. The project scope elements and project area are as depicted in Figure 1.

- Rehabilitation of Runway 8R-26L asphalt surface, including the mill and overlay of the asphalt surface to existing grades (with verification of Federal Aviation Administration (“FAA”) grade criteria and potential minor grade corrections) – shown in green in Figure 1
- Rehabilitation of Runway 8R-26L concrete surface, including joint seal / crack repair of the concrete surface – shown in orange in Figure 1
- Runway (asphalt section) shoulder rehabilitation, including a seal coat of the existing asphalt pavements – shown in purple in Figure 1
- Runway (concrete section) shoulder rehabilitation, Runway End 26L blast pad rehabilitation, and Taxiway W and Taxiway L (extension) shoulder rehabilitation, including a seal coat of the existing asphalt pavements – shown in yellow in Figure 1
- Convert Runway 8R-26L edge lights and signage from incandescent to LED
 - Associated existing infrastructure (light cans, cable / conduit to remain in place to extent possible)
 - Includes evaluation of a conversion of taxiway edge lights / signs from incandescent to LED (though taxiway edge lights / signs will likely remain as incandescent)
- Rehabilitation of Taxiways T, S, U, and V, including the mill and overlay of the asphalt surface to existing grades (with verification of FAA grade criteria and potential minor grade corrections) – shown in green in Figure 1
 - ~~Includes evaluation and design (as additive alternate) of reconstruction of Taxiways T, S, U, and V in concrete (to current delineation of asphalt/concrete pavement near holding position markings)~~
- ~~→ Widening of Taxiways T, S, U, and V to meet current FAA geometry requirements (asphalt pavement section) – shown in dark blue and cyan in Figure 1~~
 - ~~Includes evaluation and design (as additive alternate) of widened pavement in concrete~~
 - ~~Includes runway shoulder reconstruction where necessary to meet FAA geometry requirements~~
 - ~~Includes replacement of associated runway and taxiway edge lights, signage, and cable / conduit where necessary to meet FAA geometry requirements~~
- **Rehabilitation of Taxiway U including the full depth asphalt reconstruction of the taxiway to existing limits and new 30’ wide shoulder – shown in blue in Figure 2**
 - **Includes conversion of taxiway edge lights / signs from incandescent to LED within the project limits**



Figure 1 Project Area



Figure 2 Project Area – Amendment No. 1

The anticipated construction budget is approximately \$9 million, as identified by the Client. The project will be designed with additive alternates for flexibility in award. **The anticipated construction cost of the project components to be designed in Amendment No. 1 is approximately \$5.5 million. The scope elements included in Amendment No. 1 will be added and bid as Bid Schedule No. 5 in the Construction Documents.**

The Project will include the design and documentation of the following components:

- General coordination
- Project phasing
- Safety and security
- Dimensional control
- Boring layout
- Site plan
- Existing conditions
- Demolition requirements
- Geometric layout of proposed taxiway pavements
- Paving plan and elevation grids
- Pavement profiles and cross sections
- Site grading and drainage
- Joint and crack repair in concrete pavements
- Drainage area maps
- Drainage calculations (excluding modeling)
- Relocation of drainage elements affected by taxiway pavement widenings
- Runway grooving
- Pavement markings
- Utility relocations
- Runway and taxiway lighting and signage
- Erosion control and Stormwater Pollution Prevention (“SWPPP”) Best Management Practices (“BMPs”)
- Revegetation of disturbed areas
- Project details and element descriptions, as necessary
- Site-specific Construction Safety Phasing Plan (“CSPP”)
- Site-specific Construction Management Program (“CMP”)
- Permit Coordination
- FAA and Tenant Coordination

There are utilities within the project limits that will potentially be impacted by the project, such as gas, FAA communication cables, FAA electrical, and EPIA electrical.

The Consultant will comply with all local, state, and federal building codes. The Project components will be evaluated and generally designed to meet the following FAA Advisory Circulars (“AC”), latest published edition at time of contract execution, as applicable, including (but not limited to):

- *FAA AC 150/5300-13, Airport Design*
- *FAA AC 150/5300-18, General Guidance and Specifications for Submission of Aeronautical Surveys to NGS: Field Data Collection and Geographic Information System (GIS) Standards*
- *FAA AC 150/5320-5, Surface Drainage Design*
- *FAA AC 150/5320-6, Airport Pavement Design and Evaluation*
- *FAA AC 150/5340-1, Standards for Airport Markings*
- *FAA AC 150/5340-18, Standards for Airport Sign Systems*

- FAA AC 150/5340-30, *Design and Installation Details for Airport Visual Aids*
- FAA AC 150/5370-2, *Operation Safety on Airports During Construction*
- FAA AC 150/5370-10, *Standards for Specifying Construction of Airports*

All Project drawings will be prepared in AutoCAD format.

Resident Project Representative (“RPR”) services, Construction Materials Testing (“CMT”) services, and construction verification surveys, are not included as part of this proposal.

This scope of work assumes that all proposed tasks will be constructed in one (1) project. There is significant overlap between design items in each task, and the fee proposal reflects that. Any deviations from these assumptions once notice has been given to the Consultant to begin the work of this contract may require a change to the Project scope and additional fees.

Deletion of a task(s) or the requirement for additional work not specifically included herein will require re-evaluation of the proposed design fees.

2. Project Elements

The following scope items will be completed for the scope additions of Amendment No. 1, amended as shown herein.

The following is a listing of elements of the design project, representative of all project elements listed in Section 1 (Base Design Components and Additive Alternate Design Components):

- Data Collection and Site Inspection
 - The Consultant will obtain and review record drawings associated with the project site, as may be available from the Client.
 - The Consultant will obtain and review applicable design standards. The project will be evaluated and designed to meet the current requirements of the FAA and City. If standards conflict, the most stringent standard will govern.
 - The Consultant will visually inspect the project area and document overall visible conditions as part of the design.
 - The Consultant will conduct a topographic survey of the necessary survey controls and location of all visible site elements. The Consultant will prepare an accurate three-dimensional model of the existing ground elevations. Topographic survey is anticipated to be completed daytime operations. **The Consultant will conduct additional topographic survey of the Taxiway U reconstruction limits.**
 - The Consultant will conduct a geotechnical exploration program including fourteen (14) borings to a depth of ten (10) feet within the proposed development area. Laboratory testing will be performed on recovered samples selected by the geotechnical engineer to aid in soil classification and to measure engineering properties. Laboratory testing is expected to include moisture content, Atterberg limits, fines content, soluble sulfate content, and unconfined compression strength testing. The actual laboratory program will depend upon the type of soils encountered. The geotechnical exploration is anticipated to be completed daytime operations. **The Consultant will conduct an additional geotechnical exploration program of the Taxiway U reconstruction limits, including thirteen (13) borings to a depth of ten (10) feet.**

- No subsurface utility engineering (SUE) services are included in this proposal. The intent will be to locate all utilities via review of record drawings and topographic survey of visible site elements. The Contract Documents will require the Contractor to perform any recommended test hole verifications.
- The Consultant will provide an overview of existing conditions and required demolition necessary for the proposed development.

→ General

- The Consultant will provide general drawings for the Project (Cover Sheet, Sheet Index, General Notes, Dimensional Control Plans, Boring Layout Plan, etc.) in accordance with the applicable design standards.

→ Geometrics and Site Design

- The Consultant will provide the geometric design of the taxiway pavements. The Consultant will utilize *FAA AC 150/5300-13, Airport Design* to establish criteria, latest published edition at time of contract execution.
- The Consultant will perform the grading design for the site.
- The Consultant will provide design pavement markings required for the site in accordance with *FAA AC 150/5340-1, Standards for Airport Markings*, latest published edition at time of contract execution.

- **The Consultant will provide the design for the removal and replacement of airfield lighting of Taxiway U to accommodate the new 30' wide shoulder in accordance with applicable FAA design guidelines.**

→ Pavement Design

- The Consultant will provide taxiway pavement strength and material design recommendations in accordance with the FAA's *FAARFIELD 4-42 2.0* standard thickness design software and *FAA AC 150/5320-6, Airport Pavement Design and Evaluation* design guidelines, latest published edition at time of contract execution. The Consultant will coordinate with the Client's staff, FAA control tower personnel, and tenants, as necessary, to determine the appropriate aircraft fleet mix to be used in the taxiway pavement design.
- The Consultant will provide pavement profiles and cross sections for the affected pavements.
- The Consultant will provide the design for a mill and overlay of the existing runway asphalt pavement. The proposed surface will generally be designed to match existing grades (with verification of FAA grade criteria and potential minor grade corrections). This project is intended to be a "maintenance" project and is not intended to strengthen the pavement or increase capacity; therefore, the runway pavement rehabilitation will be a consistent depth mill (removal) and overlay (replacement) and will not be designed to meet the FAA's *FAARFIELD 2.0* standard thickness design software and *FAA AC 150/5320-6, Airport Pavement Design and Evaluation* design guidelines. The Consultant will utilize *FAA AC 150/5300-13, Change 1, Airport Design*, latest published edition at time of contract execution, to establish grade criteria.
- The Consultant will design pavement grooving for the runway pavement.
- A joint seal and crack repair recommendation will be provided for concrete pavements.

→ Airfield Lighting and Signage

- The Consultant will provide the design for the removal and replacement of airfield lighting and signage of Runway 8R-26L and to accommodate the modified geometry of Taxiways S, T, U, and V in accordance with applicable FAA design guidelines.

- **The Consultant will provide the design for the conversion of incandescent lighting and signage of Taxiway U to LED.**

→ Drainage Design

- The Consultant will complete the site-specific drainage design for the proposed development. Drainage design will be developed for the extent of the development boundary, limited to the infield areas immediately upstream and downstream of the runway shoulders and each taxiway construction area and bound by surrounding pavements. The design will include storm sewer layout, sizing, and calculations of pre- and post-development flows from the site, utilizing the Rational Method ($Q=CiA$). The Consultant will utilize *FAA AC 150/5320-5D, Surface Drainage Design* and the City's *Drainage Criteria Manual* to establish criteria. The design will include, as applicable, a drainage plan, profiles, details, and pre- and post-development drainage maps. Any required upstream and/or downstream modifications or improvements beyond the limits of the site are excluded from this scope of work.
- Detention, including but not limited to subsurface detention is excluded from this scope of work.
- Drainage modeling is excluded from this scope of work.
- No underdrains are anticipated to be installed for new / rehabilitated pavements. Underdrain design is excluded from this scope of work.

→ SWPPP / Erosion Controls

- The Consultant will prepare applicable SWPPP drawings for the Contractor to use in procurement of the necessary stormwater construction permits. A detailed SWPPP report along with Contractor preferred BMPs, the Notice of Intent ("NOI"), the Notice of Termination ("NOT"), and any submission to the Texas Commission on Environmental Quality ("TCEQ") will be prepared by others and is excluded from this scope of work.
- The Consultant will submit the SWPPP drawings to the City Planning and Inspections Department for review and approval.
- The Consultant will research BMPs and propose a revegetation method that prevents future erosion of graded areas within the project limits.

→ Phasing / Safety and Security

- The Consultant will review and analyze the following: potential impacts to safety and operational safety associated with aviation related areas; Airport Operations Area ("AOA") ingress/egress routes; aircraft movement areas; coordination; markings; signage; construction staging areas; vehicles crossing active pavements procedures; Notices to Airmen ("NOTAMs"); jet blast-prop-wash safety; night-time construction lighting; dust control; hauling of debris; and equipment parking.

→ Utility Coordination and Design

- The Consultant will design necessary utility relocations with the intent to minimize without compromising design standards. Existing utility crossings may include, but are not limited to, gas, FAA communication cables, FAA electrical, and EPIA electrical.
- The Consultant will meet with all affected utility companies to discuss the proposed design. Based on these coordination meetings and correspondence, the need and extent of relocations will be determined. If a dispute arises, the Consultant will immediately schedule a meeting between the City Project Manager and the utility company to resolve the dispute.
- The Consultant will notify the City of El Paso of any utilities that will require relocation.
- Construction documents will clearly show all existing and proposed utility lines and utility company contacts.
- The Consultant will obtain and submit utility clearance letters from each of the affected utility companies.

→ Permitting

- National Environmental Policy Act (“NEPA”) documentation has previously been completed for this Project. The NEPA documentation for the Project was completed by the Client’s staff. No additional NEPA documentation is included in this scope of work.
- The preparation and submittal of the Notice of Proposed Construction or Alteration (FAA Form 7460-1) for the Project to the FAA for Obstruction Evaluation / Airport Airspace Analysis (“OE/AAA”) is excluded from this scope of work.
- The Consultant will submit required documents to the City Planning and Inspections Department for review and approval during the final design phase with the intent to obtain approval from the City Planning and Inspections Department before the construction documents are submitted for bid advertisement. The Consultant will follow up the review and approval process with the City Planning and Inspections Department and will pick up approved documents and store them in a safe place. The Consultant will not be responsible for pulling a construction permit; this will be completed by others and is excluded from this scope of work.
- No other permits are anticipated for this Project. No other permits than those specifically included in this scope will be coordinated or applied for by the Consultant.

→ Construction Administration Phase Services

- The Consultant will participate in ~~thirty-three (33)~~ **thirty-eight (38)** weekly construction progress meetings.
- The Consultant will respond to all questions from the contractor submitted as Request for Information (RFI).
- The Consultant will provide advice and recommendations to the Client.
- The Consultant will review the Contractor’s technical submittals.
- The Consultant will review proposed contract changes and provide cost impact analysis.
- The Consultant will make ~~six (6)~~ **eight (8)** site visits throughout the project duration to observe project progress and verify conformance with construction documents.

- The Consultant will participate in a Substantial Completion Inspection and provide a punch list to the Client.
 - The Consultant will participate in a Final Inspection and provide a punch list to the Client.
- Closeout Phase Services
- The Consultant will produce and provide electronic format (CAD and PDF) “as-builts” drawings.
 - The Consultant will **require the Contractor to** conduct an as-built survey of the necessary project elements in accordance with *FAA AC 150/5300-18B, General Guidance and Specifications for Submission of Aeronautical Surveys to NGS: Field Data Collection and Geographic Information System Standards*.
 - The Consultant will input final topographical survey data into AGIS in accordance with *FAA AC 150/5300-18B, General Guidance and Specifications for Submission of Aeronautical Surveys to NGS: Field Data Collection and Geographic Information System Standards*.

3. Basic Services

The Consultant will provide the following services, representative of all project elements listed in Section 1 (Base Design Components and Additive Alternate Design Components):

TASK 1 PRELIMINARY DESIGN PHASE SERVICES

Task 1.01 Perform Project Initiation / Setup

The Consultant will complete the necessary Project initiation and documentation setup in order to appropriately manage the Project.

Task 1.02 Perform Data Collection and Research

The Consultant will collect and review available data related to the project area and the proposed improvements. The Consultant will review the Client’s files and records to determine relevant information for the Client’s staff to provide such as previous design drawings, existing permits, boundary surveys, development concepts and drawings, surveys, and geotechnical investigation reports. The Client will provide copies of all pertinent documents including CAD drawings, when available, to the Consultant in a timely manner to allow the project to move ahead efficiently.

The Consultant will identify and analyze requirements of governmental authorities having jurisdiction to approve the design of the Project and participate in consultations with such authorities, as required.

The Consultant will also research BMPs to revegetate any disturb areas in the projects that are applicable to the Region and prevent future erosion. The chosen method of revegetation will be shown in the Site Restoration drawings found in the project documents.

Task 1.03 Perform Geotechnical Investigation

The Consultant will collect, review, compile, and summarize available data related to the Project. The Consultant will conduct a geotechnical exploration program including ~~Fourteen (14)~~ **Twenty-seven (27)** borings to a depth of ten (10) feet within the proposed development area.

The Consultant will provide a taxiway pavement strength and material design recommendation following FAA pavement design guidelines. Runway pavement rehabilitation will be a consistent depth mill (removal) and overlay (replacement) and will not be designed to meet the FAA's *FAARFIELD 1-42 2.0* standard thickness design software and *FAA AC 150/5320-6, Airport Pavement Design and Evaluation* design guidelines.

The Consultant will coordinate with the Client's staff, FAA control tower personnel, and tenants, as necessary, to determine the appropriate aircraft fleet mix to be used in the pavement design.

The geotechnical investigation will be performed by LEC Engineering, Inc. ("LOI"). LOI's proposal and scope of work for these services has been included in Attachment E. All geotechnical investigation work is anticipated to be completed daytime operations.

Task 1.04 Obtain Design Topographical Survey

The Consultant will review available land survey and topographic survey data and develop a site survey scope of work. The Consultant will coordinate and review with the survey subconsultant such items as: specific surveying limits; geometric criteria required for topography, profiles and cross-sectional survey of existing project areas, above and below ground utilities and existing site improvements; horizontal and vertical control; airfield access/security requirements and surveying schedule.

The following survey efforts are anticipated:

- Cross section / topographic survey of the proposed runway and taxiway pavement areas and surrounding areas.
- Locate existing underground utilities.
- Provide three (3) horizontal and vertical control points for the project area within 1,000 feet of project site.

The Consultant will compile the existing survey, utility, and record drawing information and develop existing conditions CAD base sheets of the project areas. The data will be layered onto different drawings as required for the construction drawings. All survey data will be provided to the Client in PDF and AutoCAD Civil 3D format.

Topographical design surveys will be performed by Brock & Bustillos, Inc. ("B&B"). B&B's proposal and scope of work for these services has been included in Attachment F. All topographic survey work is anticipated to be completed daytime operations.

Additional topographical design survey will be performed by B&B to include the Taxiway U rehabilitation.

Task 1.05 Prepare Preliminary Design Documents

The Consultant will prepare Preliminary Design Documents (drawings, Engineer's report, project manual, and EOPC). The design will evaluate and identify specific elements of the Project for a technically and economically sound project. Additive alternates will be developed for bidding to correspond to available budgets.

An anticipated list of drawings is included in Attachment C.

The project manual in this phase will consist of technical specifications and referenced documents, which may include a Report of Geotechnical Exploration, applicable FAA ACs, and any applicable permitting requirements. Contract documents, a site-specific CSPP, and a site-specific CMP will be included in the project manual in subsequent phases.

The Consultant will prepare an Engineer's Report generally consisting of a description of the scope of the project, evaluation of design elements, evaluation of design standards, evaluation of applicable requirements of governmental authorities having jurisdiction, evaluation of conceptual schematic layouts and geometric requirements, evaluation of environmental concerns, pavement design recommendations, analysis of the geotechnical investigation, evaluation of preliminary safety and phasing concepts, the Consultant's (Engineer's) Opinion of Probable Construction Cost ("EOPC"), preparation of a preliminary construction schedule, relevant exhibits to clearly indicate the considerations involved, alternatives available to the Client, and the Consultant's findings and recommendations.

In providing EOPCs, the Consultant has no control over the cost or availability of labor, equipment, or materials, or other local market conditions and that the Consultant's EOPCs are made on the basis of the Consultant's professional judgement and experience. The Consultant makes no warranty, express or implied, that the bids or the negotiated cost of the work will not vary from the Consultant's EOPC.

The civil design components will be performed by RS&H and B&B. B&B's proposal and scope of work for civil services has been included in Attachment G.

The electrical design components will be performed by Ferguson Consulting, Inc. ("FCI"). FCI's proposal and scope of work for these services has been included in Attachment D.

The project will be designed with additive alternates for flexibility in award.

The Amendment No. 1 will not include development of Preliminary Design Documents.

Task 1.06 Perform In-House Quality Control Review – Preliminary Design Documents

The Consultant will conduct an in-house quality control review of the Preliminary Design Documents prior to submittal to the Client and FAA.

The Amendment No. 1 will not include Quality Control Review of the Preliminary Design Documents.

Task 1.07 Submit Preliminary Design Documents

The Consultant will review all in-house quality control review of the Preliminary Design Documents and incorporate applicable comments into the Preliminary Design Documents. The Consultant will then submit and distribute copies of the Preliminary Design Documents to the Client and FAA for review, comment, and approval to proceed with preparation of Pre-Final Design Documents. Distribution quantities of the Preliminary Design Documents will be as noted in the DELIVERABLES section of this Proposal.

The Amendment No. 1 will not include submittal of Preliminary Design Documents.

Task 1.08 Meetings / Presentations

To further the design progress and coordinate efforts, various meetings are anticipated throughout the design process. For all meetings, the Consultant will attend said meetings (either in person or via teleconference, as indicated), prepare and distribute written minutes of the meeting with respect to project components designed by the Consultant, and perform appropriate follow-up activities. The anticipated number of meetings is listed herein; should the requirement for additional meetings be necessary, a change to the Project scope and additional fees may be required.

No additional meetings will be held for the Amendment No. 1 scope of work with regards to the Preliminary Design.

→ **Pre-Design Conference**

The Consultant will coordinate and attend one (1) pre-design/kick-off meeting with the Client and various subconsultants to discuss and solidify (to the extent feasible) the project scope, budget, schedule, concept, coordination requirements, design features, design constraints, design parameters, local conditions, communication channels, submittals, responsibilities, and other related items.

The Consultant will prepare minutes of the pre-design conference and distribute to all attendees within three (3) working days of the meeting. This meeting is anticipated to be held via teleconference and will not require travel by the Consultant.

→ **Site Investigation**

The Consultant will coordinate and attend one (1) site investigation meeting with the Client and various subconsultants to review and document the visible conditions of the project site.

The Consultant will prepare minutes of the site investigation and distribute to all attendees within three (3) working days of the meeting. This meeting is anticipated to be held at EPIA and will require travel by the Consultant.

→ **Design Development / Coordination Meetings**

To further the design and maximize a coordinated effort, Design Development / Coordination Meetings may be required. These meetings are intended to be “workshop” meetings to discuss design alternatives and requirements. Attendees at the meeting may include the Client, EPIA staff, City staff, FAA, stakeholders, EPIA users, other consultants, and other tenants. Three (3) meetings have been anticipated.

The Consultant will prepare minutes of these meetings and distribute to all attendees within three (3) working days of the meeting. These meetings are anticipated to be held via teleconference and will not require travel by the Consultant.

→ **Utility Coordination Meetings**

To further the design with respect to utility design, Utility Coordination Meetings may be required. These meetings are intended to be “workshop” meetings to discuss design alternatives and requirements. Attendees at the meeting may include the Client, EPIA staff, City staff, and utility owners. Two (2) meetings have been anticipated.

The Consultant will prepare minutes of these meetings and distribute to all attendees within three (3) working days of the meeting. One (1) meeting is anticipated to be held via teleconference and will not require travel by the Consultant.

One (1) meeting is anticipated to be held at EPIA or City offices and will require travel by the Consultant.

→ **Coordination Meetings with Concurrent Airfield Projects**

The Consultant will conduct and attend two (2) coordination meetings to review project phasing with the Client and other consultants working on adjacent airfield projects.

The Consultant will prepare minutes of these meetings and distribute to all attendees within three (3) working days of the meeting. These meetings are anticipated to be held via teleconference and will not require travel by the Consultant.

→ **Preliminary Design Documents Review Meeting**

The Consultant will coordinate and attend one (1) Preliminary Design Documents review meeting with the Client, FAA, and other attendees, as applicable, to receive comments and direction regarding the Preliminary Design Documents.

The Consultant will prepare minutes of the Preliminary Design Documents review meeting and distribute to all attendees within three (3) working days of the meeting. This meeting is anticipated to be held via teleconference and will not require travel by the Consultant.

Task 1.09 Project Management and Administration

The Consultant will manage the Project in a professional manner, assign and manage qualified individuals or subconsultants to the Project, and complete the efforts within the proposed time frame.

This task will include scheduling, resource allocation, monitoring, oversight, direction and control for all aspects of the team's efforts including assembly and coordination of all documentation. The Consultant will complete meeting preparation activities, prepare and distribute meeting minutes, and assign appropriate follow-up activities.

This task will also include routine communication, as necessary, with the Client and FAA to discuss Project progress.

TASK 2 PRE-FINAL DESIGN PHASE SERVICES

Task 2.01 Incorporate Preliminary Design Review Comments

The Consultant will review all comments received from the Client's authorized representative(s) from the preliminary design submittal reviews and incorporate applicable comments into drawings, project manual, Engineer's report, and EOPC. The Consultant will provide a written response on each comment on how it will be incorporated into the documents, or why it was not applicable.

The Preliminary Design is considered complete and no additional comments are anticipated for incorporation.

Task 2.02 Prepare Pre-Final Design Documents

The Consultant will prepare Pre-Final Design Documents (drawings, project manual, Engineer's Report, and EOPC). The design will evaluate and identify specific elements of the Project for a technically and economically sound project, with applicable additive alternates included for bidding to correspond to available budgets.

An anticipated list of drawings is included in Attachment C.

The project manual will consist of:

- Contract Documents (to be provided by the Client and incorporated by the Consultant);
- Bid Proposal;
- Technical specifications;
- Site-specific CSPP;
- Site-specific CMP; and
- Referenced documents, which may include a Report of Geotechnical Exploration, applicable FAA ACs, and any applicable permitting requirements.

The Consultant will prepare a site-specific CSPP in conformance with *FAA AC 150/5370-2, Operational Safety on Airports during Construction*, latest published edition at time of contract execution. *Paragraph 103.a* defines the parameters for a CSPP. It is anticipated that a CSPP is required since this project will impact the AOA. *Paragraph 103.a* states:

“A CSPP must be developed for each on-airfield construction project funded by the Airport Improvement Program (AIP)... As per (FAA) Order 5200.11, FAA Airports (ARP) Safety Management System (SMS), such projects do not include construction, rehabilitation, or change of any facility that is entirely outside the air operations area, does not involve any expansion of the facility envelope and does not involve construction equipment, haul routes or placement of material in locations that require access to the air operations area, increase the facility envelope, or impact line-of-sight... However, extraordinary circumstances may trigger the need for a Safety Assessment and a CSPP. The CSPP is subject to subsequent review and approval under the FAA’s Safety Risk Management procedures...”

Safety Risk Management System (“SRM”) panels and Safety Assessment reporting are not included as part of this proposal.

The Consultant will prepare a site-specific CMP for the Project in conformance with *FAA AC 150/5370-12, Quality Management for Federally Funded Airport Construction Projects*, latest edition, that will be used to ensure that construction meets or exceeds the minimum standards required by the Design Documents. The CMP will identify key contacts and their responsibilities throughout construction of the project. The CMP will be included as an attachment to the project manual.

In providing EOPCs, the Consultant has no control over the cost or availability of labor, equipment, or materials, or other local market conditions and that the Consultant’s EOPCs are made on the basis of the Consultant’s professional judgement and experience. The Consultant makes no warranty, express or implied, that the bids or the negotiated cost of the work will not vary from the Consultant’s EOPC.

The civil design components will be performed by RS&H and B&B. B&B’s proposal and scope of work for civil services has been included in Attachment G.

The electrical design components will be performed by Ferguson Consulting, Inc. (“FCI”). FCI’s proposal and scope of work for these services has been included in Attachment D.

The project will be designed with additive alternates for flexibility in award.

The Consultant will prepare Pre-Final Design Documents to include additional scope per Amendment No. 1. Pre-Final Design Documents will be prepared for the entire scope of work, including the original scope work and the additions of Amendment No. 1.

Task 2.03 Perform In-House Quality Control Review – Pre-Final Design Documents

The Consultant will conduct an in-house quality control review of the Pre-Final Design Documents prior to submittal to the Client, the City, and FAA.

Task 2.04 Submit Pre-Final Design Documents

The Consultant will review all in-house quality control review of the Pre-Final Design Documents and incorporate applicable comments into the Pre-Final Design Documents. The Consultant will then submit and distribute copies of the Pre-Final Design Documents to the Client, the City, and FAA for review, comment, and approval to proceed with preparation of Final Design Documents. Distribution quantities of the Pre-Final Design Documents will be as noted in the DELIVERABLES section of this Proposal.

The Consultant will submit Pre-Final Design Documents to include additional scope per Amendment No. 1. Pre-Final Design Documents will be prepared for the entire scope of work, including the original scope work and the additions of Amendment No. 1.

Task 2.05 Meetings / Presentations

To further the design progress and coordinate efforts, various meetings are anticipated throughout the design process. For all meetings, the Consultant will attend said meetings (either in person or via teleconference, as indicated), prepare and distribute written minutes of the meeting with respect to project components designed by the Consultant, and perform appropriate follow-up activities. The anticipated number of meetings is listed herein; should the requirement for additional meetings be necessary, a change to the Project scope and additional fees may be required.

→ **Design Development / Coordination Meetings**

To further the design and maximize a coordinated effort, Design Development / Coordination Meetings may be required. These meetings are intended to be “workshop” meetings to discuss design alternatives and requirements. Attendees at the meeting may include the Client, EPIA staff, City staff, FAA, stakeholders, EPIA users, and other tenants. Two (2) meetings have been anticipated.

The Consultant will prepare minutes of these meetings and distribute to all attendees within three (3) working days of the meeting. These meetings are anticipated to be held via teleconference and will not require travel by the Consultant.

→ **Utility Coordination Meetings**

To further the design with respect to utility design, Utility Coordination Meetings may be required. These meetings are intended to be “workshop” meetings to discuss design alternatives and requirements. Attendees at the meeting may include the Client, EPIA staff, City staff, and utility owners. One (1) meeting has been anticipated.

The Consultant will prepare minutes of these meetings and distribute to all attendees within three (3) working days of the meeting. These meetings are anticipated to be held via teleconference and will not require travel by the Consultant.

→ **Coordination Meetings with Concurrent Airfield Projects**

The Consultant will conduct and attend one (1) coordination meeting to review project phasing with the Client and other consultants working on adjacent airfield projects.

The Consultant will prepare minutes of this meeting and distribute to all attendees within three (3) working days of the meeting. This meeting is anticipated to be held via teleconference and will not require travel by the Consultant.

→ **Pre-Final Design Documents Review Meeting**

The Consultant will coordinate and attend one (1) Pre-Final Design Documents review meeting with the Client, FAA, and other attendees, as applicable, to receive comments and direction regarding the Pre-Final Design Documents.

The Consultant will prepare minutes of the Pre-Final Design Documents review meeting and distribute to all attendees within three (3) working days of the meeting. This meeting is anticipated to be held via teleconference and will not require travel by the Consultant.

Task 2.06 Project Management and Administration

The Consultant will manage the Project in a professional manner, assign and manage qualified individuals or subconsultants to the Project, and complete the efforts within the proposed time frame.

This task will include scheduling, resource allocation, monitoring, oversight, direction and control for all aspects of the team's efforts including assembly and coordination of all documentation. The Consultant will complete meeting preparation activities, prepare and distribute meeting minutes, and assign appropriate follow-up activities.

This task will also include routine communication, as necessary, with the Client and FAA to discuss Project progress.

TASK 3 FINAL DESIGN PHASE SERVICES

Task 3.01 Incorporate Pre-Final Review Comments

The Consultant will review all comments received from the Client's authorized representative(s) from the pre-final design submittal reviews and incorporate applicable comments into drawings, project manual, Engineer's Report, and EOPC. The Consultant will provide a written response on each comment on how it will be incorporated into the documents, or why it was not applicable.

Prepare Final Design Documents

The Consultant will prepare Final (sealed) Design Documents (drawings, project manual, Engineer's Report, and EOPC). The design will evaluate and identify specific elements of the Project for a technically and economically sound project, with applicable additive alternates included for bidding to correspond to available budgets.

An anticipated list of drawings is included in Attachment C.

In providing EOPCs, the Consultant has no control over the cost or availability of labor, equipment, or materials, or other local market conditions and that the Consultant's EOPCs are made on the basis of the Consultant's professional judgement and experience. The Consultant makes no warranty, express or implied, that the bids or the negotiated cost of the work will not vary from the Consultant's EOPC.

Task 3.03 Perform In-House Quality Control Review – Final Design Documents

The Consultant will conduct an in-house quality control review of the Final Design Documents prior to submittal to the Client and FAA.

Task 3.04 Submit Final Design Documents

The Consultant will review all in-house quality control reviews of the Final Design Documents and incorporate applicable comments into the Final Design Documents.

The Consultant will then submit and distribute copies of the Final Design Documents. Distribution quantities of the Final Design Documents will be as noted in the DELIVERABLES section of this Proposal. Comments requesting changes to the Final Design Documents after this submittal will be performed under a change order for additional time and cost, unless due to an error or omission by the Consultant.

Task 3.05 Meetings / Presentations

To further the design progress and coordinate efforts, various meetings are anticipated throughout the design process. For all meetings, the Consultant will attend said meetings (either in person or via teleconference, as indicated), prepare and distribute written minutes of the meeting with respect to project components designed by the Consultant, and perform appropriate follow-up activities. The anticipated number of meetings is listed herein; should the requirement for additional meetings be necessary, a change to the Project scope and additional fees may be required.

→ **Design Development / Coordination Meetings**

To further the design and maximize a coordinated effort, Design Development / Coordination Meetings may be required. These meetings are intended to be “workshop” meetings to discuss design alternatives and requirements. Attendees at the meeting may include the Client, EPIA staff, City staff, FAA, stakeholders, EPIA users, and other tenants. One (1) meeting has been anticipated.

The Consultant will prepare minutes of these meetings and distribute to all attendees within three (3) working days of the meeting. This meeting is anticipated to be held via teleconference and will not require travel by the Consultant.

Task 3.06 Project Management and Administration

The Consultant will manage the Project in a professional manner, assign and manage qualified individuals or subconsultants to the Project, and complete the efforts within the proposed time frame.

This task will include scheduling, resource allocation, monitoring, oversight, direction and control for all aspects of the team’s efforts including assembly and coordination of all documentation. The Consultant will complete meeting preparation activities, prepare and distribute meeting minutes, and assign appropriate follow-up activities.

TASK 4 BIDDING PHASE SERVICES

Task 4.01 Provide Bidding Assistance

The Consultant will assist in advertising for and obtaining bids or proposals for the Project. This includes coordination and preparation of pre-bid meeting agenda documents and presentation and any other documents required for the bidding process.

Task 4.02 Respond to Bidder / Contractor Inquiries

The Consultant will provide formal responses to Bidder / Contractor inquiries.

Task 4.03 Issue Addenda

The Consultant will issue addenda as appropriate to clarify, correct, or change the bidding documents.

Task 4.04 Evaluate Bids

It is understood that the City Purchasing Department will conduct the bid opening and the Consultant will not be required to attend the bid opening. After the bid opening, Bidder / Contractor bids will be provided to the Consultant by the Client for evaluation. The Consultant will develop a tabulation of all bids received and provide evaluation of such, checking for correctness, qualifications of apparent low bidder, DBE participation goals, etc., and make recommendations of award based solely on apparent low bidder. The Consultant cannot and does not guarantee that bids will not vary from the EOPC.

Task 4.05 Meetings / Presentations

To further the bidding efforts, various meetings are anticipated throughout the bidding process. For all meetings, the Consultant will attend said meetings (either in person or via teleconference, as indicated), prepare and distribute written minutes of the meeting with respect to project components designed by the Consultant, and perform appropriate follow-up activities. The anticipated number of meetings is listed herein; should the requirement for additional meetings be necessary, a change to the Project scope and additional fees may be required.

→ **Pre-bid Conference**

The Consultant will attend and conduct a Pre-bid Conference. This meeting is anticipated to be held at EPIA and will require travel by the Consultant.

Task 4.06 Project Management and Administration

The Consultant will manage the Project in a professional manner, assign and manage qualified individuals or subconsultants to the Project, and complete the efforts within the proposed time frame.

This task will include scheduling, resource allocation, monitoring, oversight, direction and control for all aspects of the team's efforts including assembly and coordination of all documentation. The Consultant will complete meeting preparation activities, prepare and distribute meeting minutes, and assign appropriate follow-up activities.

This task will also include routine communication, as necessary, with the Client and FAA to discuss Project progress.

TASK 5 CONSTRUCTION PHASE SERVICES

The services anticipated to be provided after commencing the Construction Phase are as follows:

Task 5.01 Prepare Conformed Construction Documents

The Consultant will prepare and provide Conformed Construction Documents, incorporating all appropriate modifications made via addenda during the bidding process. The Conformed Construction Documents will be used as the basis of construction.

Task 5.02 Review Contractor Submittals, Shop Drawings, and Samples

The Consultant will review and approve (or take other appropriate action) upon the submittals, shop drawings, samples, and other submissions furnished by the Contractor and submitted to the Consultant by the Client. The Consultant will maintain a log of all Contractor submittals which will include the date submitted to the Consultant, the action taken, and the date returned.

The Consultant will evaluate Contractor proposals and substitutions and recommend to the Client to either approve or disapprove the Contractor's proposal or substitution. Consultant reviews of Contractor proposals and substitutions is limited to an initial review and, if necessary, one (1) revision review of each Contractor proposal or substitution. Additional reviews may require a change to the Project scope and additional fees.

Task 5.03 Provide Clarifications and Interpretations

The Consultant will prepare and provide design clarifications, interpretations, and recommendations to assist the Client in resolving field problems relating to construction. Such clarifications and interpretations will be consistent with the intent of and reasonably inferable from the Conformed Construction Documents. The Consultant may issue, as appropriate, revised drawings and/or specifications authorizing minor variations from the requirements of the Conformed Construction Documents. This work is limited to the content and scope of the Conformed Construction Documents. Any Client-requested deviations from the content and scope of the Conformed Construction Documents may require a change to the Project scope and additional fees.

Task 5.04 Prepare Change Orders and Work Change Directives

The Consultant will consult with and advise the Client regarding potential changes orders and / or supplemental agreements. The Consultant will prepare change order and / or supplemental agreement drawings and/or specifications, as directed by the Client. This work is limited to the content and scope of

the Conformed Construction Documents. Any Client-requested deviations from the content and scope of the Conformed Construction Documents may require a change to the Project scope and additional fees.

Task 5.05 Review Independent Testing Laboratory Reports

The Consultant will review any reports of inspections, tests, and approvals of samples, materials, and equipment prepared by an independent testing laboratory and provide appropriate professional interpretation thereof.

Task 5.06 Meetings / Presentations

To further the construction progress and coordinate efforts, various meetings are anticipated throughout the construction process. For all meetings, the Consultant will attend said meetings (either in person or via teleconference, as indicated), prepare and distribute written minutes of the meeting with respect to project components designed by the Consultant, and perform appropriate follow-up activities. The anticipated number of meetings is listed herein; should the requirement for additional meetings be necessary, a change to the Project scope and additional fees may be required.

→ **Pre-Construction Conference**

The Consultant will attend one (1) pre-construction conference. Representatives of the Consultant's civil and electrical design team will be present at the pre-construction conference. It is understood that the Client's Construction Manager will conduct this meeting and RS&H will attend as a support role. This meeting is anticipated to be held at EPIA and will require travel by the Consultant.

→ **Weekly Construction Progress Meetings**

The Consultant will attend weekly construction progress meetings with the Client, the Contractor, and / or others, as necessary, to coordinate construction efforts, review construction progress, and discuss any necessary topics to further facilitate the ongoing construction project. Representatives of the Consultant's civil and electrical design team will be present for the teleconferences. ~~Thirty-three~~ **Thirty-eight** meetings (~~33-38~~) have been anticipated. These meetings are anticipated to be held via teleconference and will not require travel by the Consultant.

→ **Periodic Site Visits**

The Consultant will, in connection with observations of the work of the Contractor while it is in progress, make visits to the construction site at intervals appropriate to the various stages of construction as the Client deems necessary in order to observe and familiarize themselves generally with the progress and quality of the work and to determine if the work is generally proceeding in accordance with the Conformed Construction Documents. After attending a periodic site visit, the Consultant will prepare a written field report to the Client to advise of any deviation from the Conformed Construction Documents observed by or brought to the attention of the Consultant. The Consultant will additionally make written reports of recommendations to the Client regarding any work completed by the Contractor that the Consultant has determined to be defective, that will not produce a completed Project generally conforming to the Conformed Construction Documents, and / or that will prejudice the integrity of the design concept of the completed Project as a functioning whole. This Proposal includes ~~six (6)~~ **eight (8)** site visits to be performed by the Consultant, not including Final Inspection. These site visits / meetings will be held at EPIA and will require travel by the Consultant. It is assumed these meetings will be scheduled to coincide with other on-site (pre-pave meetings for example).

The Consultant will not have control or charge of and will not be responsible for construction means, methods, techniques, sequences or procedures, environmental compliance, or for the safety precautions and programs in connection with the project construction, for the acts or omissions of the Contractor, subcontractors, any of their agents or subcontractor's employees, or any other person performing any of the work or for the failure of such persons to carry out the work in accordance with the Conformed Construction Documents.

→ **Substantial Completion Inspection**

The Consultant will attend one (1) Substantial Completion Inspection with the Client, the Contractor, and other governmental authorities to determine if construction work has been completed in general conformance with the Conformed Construction Documents and prepare a punchlist of visually non-conforming items and un-completed items of work. Representatives of the Consultant's civil and electrical design team will be present at the Substantial Completion Inspection. This meeting will be held at EPIA and will require travel by the Consultant.

→ **Final Inspection**

The Consultant will attend one (1) Final Inspection with the Client, the Contractor, and other governmental authorities to determine if the punchlist items from the Substantial Completion Inspection have been appropriately completed. Representatives of the Consultant's civil and electrical design team will be present at the Final Inspection, as necessary. This meeting will be held at EPIA and will require travel by the Consultant.

Task 5.07 General Administration of the Construction Contract

The Consultant will consult with the Client with respect to the project design components throughout construction of the Project.

This task will include providing oversight of project components designed by the Consultant; general correspondence by the Consultant with the Client, the Contractor, the City, the RPR, and other governmental authorities, as needed; coordination of meetings with the Client, the Contractor, the City, the RPR, and other governmental authorities; Project reporting; and project record keeping.

The Consultant will manage the Project in a professional manner to complete the efforts within the proposed time frame. This task includes scheduling, resource allocation, monitoring, oversight, direction, and control for all aspects of the Consultant's efforts, including assembly and coordination of all documentation.

The Consultant will not have control or charge of and will not be responsible for construction means, methods, techniques, sequences or procedures or for the safety precautions and programs in connection with the project construction, for the acts or omissions of the Contractor, subcontractors, any of their agents or subcontractor's employees, or any other person performing any of the work or for the failure of such persons to carry out the work in accordance with the Conformed Construction Documents.

The anticipated construction duration is 260 calendar days, based on a preliminary construction schedule prepared by the Consultant. Construction is anticipated to commence in FAA Fiscal Year 2022 (approximately summer of 2022). Any deviation from these assumptions may require a change to the Project scope and additional fees.

TASK 6 CLOSEOUT PHASE SERVICES

The services anticipated to be provided after commencing the Closeout Phase are as follows:

Task 6.01 Prepare Closeout Documents

The Consultant will prepare Project Record Drawings, corrected to show significant changes made in the work during the construction of the project. Such corrections will be based upon as-built prints, drawings, field sketches and other data furnished to the Consultant by the Client, and upon change orders issued during construction.

The Consultant will prepare an updated airfield marking and signage plan update for FAA Part 139 inspections.

Task 6.02 Meetings / Presentations

For all meetings, the Consultant will attend said meetings (either in person or via teleconference, as indicated), prepare and distribute written minutes of the meeting with respect to project components designed by the Consultant, and perform appropriate follow-up activities. The anticipated number of meetings is listed herein; should the requirement for additional meetings be necessary, a change to the Project scope and additional fees may be required.

Task 6.03 Warranty Inspection

The Consultant will attend one (1) Warranty Inspection with the Owner, City, Contractor, RPR, and other governmental authorities prior to the expiration of the warranty period. The Consultant will advise the Owner and Contractor of any recommended action to be taken under the terms of the warranty. This meeting will be held at EPIA and will require travel by the Consultant.

Task 6.04 Coordinate Contractor As-Built Survey and AGIS Upload

The Consultant will require the Contractor to conduct an as-built survey of the necessary project elements in accordance with *FAA AC 150/5300-18B, General Guidance and Specifications for Submission of Aeronautical Surveys to NGS: Field Data Collection and Geographic Information System Standards*.

The Consultant will utilize the survey data provided by the Contractor to upload post construction topographic data to AGIS in accordance with *FAA AC 150/5300-18B, General Guidance and Specifications for Submission of Aeronautical Surveys to NGS: Field Data Collection and Geographic Information System Standards*.

4. Deliverables

The Consultant will prepare Design Documents for distribution to the parties as noted below at the distribution quantities as noted below. Deliverables will be as follows for each phase:

→ Preliminary Design Submittal

- Five (5) complete 11" x 17" plan sets, five (5) project manuals, five (5) Engineer's Reports, and five (5) copies of the EOPC for Client review
- Two (2) complete 11" x 17" plan sets, two (2) project manuals, and two (2) copies of the EOPC for FAA review
- Digital copies (PDF) of the Preliminary Design Documents to both the Client and FAA
- **No additional Preliminary Design submittal documents are included in Amendment No. 1.**

- Pre-Final Design Documents Submittal
 - Five (5) complete 11" x 17" plan sets, five (5) project manuals, five (5) Engineer's Reports, and five (5) copies of the EOPC for Client review
 - **Five (5) complete 11" x 17" plan sets, five (5) project manuals, five (5) Engineer's Reports, and five (5) copies of the EOPC for review. Submittal will include additional scope items noted in this Amendment No. 1.**
 - Two (2) complete 11" x 17" plan sets, two (2) project manuals, and two (2) copies of the EOPC for FAA review
 - One (1) complete 11" x 17" plan set for City permit review
 - Digital copies (PDF) of the Pre-Final Design Documents to both the Client and FAA
- Final Design Documents Submittal
 - Five (5) complete 11" x 17" plan sets, five (5) project manuals, five (5) Engineer's Reports, and five (5) copies of the EOPC for the Client
 - Two (2) complete 11" x 17" plan sets, two (2) project manuals, and two (2) copies of the EOPC for the FAA
 - Digital copies (PDF) of the Final Design Documents to both the Client and FAA
 - Digital copies (CAD) of final design files for the Client
 - Digital copies (Word) of final scope of work and bid proposal for the Client
 - Digital copies (PDF) of Consultant documented quality assurance design review
- Closeout Documents Submittal
 - Digital copies (PDF) of the Closeout Documents to both the Client and FAA.
 - Digital copies (CAD) of as-built files for the Client.

5. Schedule

The Consultant proposes to perform the services as noted herein in accordance with the following anticipated schedule:

- | | |
|---|---|
| → Pre-Design Conference | 7 days from NTP |
| → Topographical Survey | 60 days from Pre-Design Conference |
| → Geotechnical Investigation | 60 days from Pre-Design Conference |
| → Preliminary Design Documents Submittal | 60 days from Pre-Design Conference |
| → Preliminary Design Documents Review | 14 days from Submittal |
| → Pre-Final Design Documents Submittal | 30 days from Preliminary Design Review |
| → Pre-Final Design Documents Submittal | 60 days from Amendment No. 1 NTP |
| → Pre-Final Design Documents Review | 14 days from Submittal |
| → Final Design Documents Submittal | 30 45 days from Pre-Final Design Review |
| → Final Design Documents Review | 14 days from Submittal |

- Bidding as necessary
- Construction Administration ~~260~~ 320 days from construction NTP

In order to meet the proposed schedule above, the Consultant must receive the following information from the Client, or others as required. This information must be received within the timeframe noted with respect to the NTP in order to not jeopardize the proposed schedule.

- Airfield record drawings and/or as-builts (at NTP)

Delays to the proposed design schedule outside of the Consultant's control will require re-evaluation of the proposed schedule and / or design fees.

6. Professional Fees

The proposed fee for this Project is as shown in Attachment A. **Attachment A with this proposal only includes additional fees for Amendment No. 1, intended to be included as an addition to the original contract.**

Design and bidding services will be completed on a lump sum basis. Construction Administration services will be completed on a time and materials basis. An RS&H hourly rate schedule is included in Attachment B. **Attachment B has been updated to reflect a rate schedule through December 31, 2023.**

The Consultant understands the DBE goal for this Project is 3.0%. The Consultant will utilize Ferguson Consulting, Inc. for the airfield electrical modifications to meet the DBE goal for the Project, as shown on Attachment A.

7. Exclusions and Assumptions

Tasks not specifically identified in this scope of work are not included in this Contract. In addition, the following is a listing of major items not included as part of this Proposal. This list will not be construed as the only items not included as part of this scope of services.

- Funding coordination
- FAA Reimbursable Agreement coordination related to potential relocation of FAA cables
- National Environmental Policy Act (NEPA) documentation beyond SWPPP drawings
- National Pollutant Discharge Elimination System ("NPDES") / Texas Pollutant Discharge Elimination System ("TPDES") / TCEQ permits
- Environmental remediation (wetlands, soil contamination, etc.)
- Permitting beyond that noted herein
- Any and all permit fees unless otherwise indicated
- Obstruction surveys
- Construction verification surveys (Construction Documents will require Contractor to perform and submit for approval)
- Construction materials testing
- Subsurface utility engineering (SUE) services
- Stormwater / drainage improvements beyond basic site grading and drainage calculations, including drainage modeling, stormwater detention, underdrains, etc.
- Flood plain analysis and Conditional Letter of Map Revision ("CLOMR") application
- Per- and polyfluoroalkyl substances (PFAS) analysis and mitigation
- Safety Risk Management System ("SRM") and Safety Assessment reporting
- Design or construction administration of any NAVAID improvements / relocations
- Design or construction administration of any ALCMS improvements / updates

- Trench safety plan
- Confined space entry plan
- FAA Form 7460-1 and submittal
- Updates to Airport Layout Plan (“ALP”)
- RPR services, construction materials acceptance testing, and construction staking
- Additional travel to EPIA, FAA offices, or any other requested travel, beyond those meetings explicitly noted herein

The following are assumed for this proposal:

- All utilities are available at the site and no offsite improvements are required
- Escort for geotechnical analyses, topographical surveys, and as-built surveys will be provided by the Client
- Applicable airfield pavements will be closed during geotechnical analyses, topographical surveys, and as-built surveys, allowing for uninterrupted, continual access
- The Client will provide current operational data (type of aircraft and number of operations) for pavement design purposes

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SUMMARY OF PROFESSIONAL FEES

El Paso International Airport

Runway 8R-26L Rehabilitation

DESIGN, BIDDING, AND CONSTRUCTION PHASE SERVICES - AMENDMENT NO. 1

FIRM NAME	Labor (Lump Sum)	Labor (Hourly)	Expenses (Reimb.)	TOTAL	
RS&H, Inc.					
Task 1 – Preliminary Design Phase Services	\$ 5,490.36	\$ -	\$ -	\$ 5,490.36	2.19%
Task 2 – Pre-Final Design Phase Services	\$ 67,208.27	\$ -	\$ -	\$ 67,208.27	26.83%
Task 3 – Final Design Phase Services	\$ 55,925.60	\$ -	\$ -	\$ 55,925.60	22.33%
Task 4 – Bidding Phase Services	\$ 3,263.43	\$ -	\$ -	\$ 3,263.43	1.30%
Task 5 – Construction Phase Services	\$ -	\$ 31,994.69	\$ 9,455.00	\$ 41,449.69	16.55%
Task 6 – Closeout Phase Services	\$ -	\$ 5,049.18	\$ -	\$ 5,049.18	2.02%
RS&H, Inc. Grand Subtotal	\$131,887.66	\$37,043.87	\$9,455.00	\$ 178,386.53	71.22%
Subconsultants (Non-DBE)					
Brock & Bustillos, Inc. (Topographical Survey)					
Task 1 – Preliminary Design Phase Services	\$ 22,862.66	\$ -	\$ -	\$ 22,862.66	9.13%
Task 2 – Pre-Final Design Phase Services	\$ -	\$ -	\$ -	\$ -	0.00%
Task 3 – Final Design Phase Services	\$ -	\$ -	\$ -	\$ -	0.00%
Task 4 – Bidding Phase Services	\$ -	\$ -	\$ -	\$ -	0.00%
Task 5 – Construction Phase Services	\$ -	\$ -	\$ -	\$ -	0.00%
Task 6 – Closeout Phase Services	\$ -	\$ -	\$ -	\$ -	0.00%
LEC Engineering, Inc. (Geotechnical Investigation)					
Task 1 – Preliminary Design Phase Services	\$ 32,710.00	\$ -	\$ -	\$ 32,710.00	13.06%
Task 2 – Pre-Final Design Phase Services	\$ -	\$ -	\$ -	\$ -	0.00%
Task 3 – Final Design Phase Services	\$ -	\$ -	\$ -	\$ -	0.00%
Task 4 – Bidding Phase Services	\$ -	\$ -	\$ -	\$ -	0.00%
Task 5 – Construction Phase Services	\$ -	\$ -	\$ -	\$ -	0.00%
Task 6 – Closeout Phase Services	\$ -	\$ -	\$ -	\$ -	0.00%
Subconsultants (Non-DBE) Subtotal	\$ 55,572.66	\$ -	\$ -	\$ 55,572.66	22.19%
Sub-Consultants (DBE)					
Ferguson Consulting, Inc. (Electrical)					
Task 1 – Preliminary Design Phase Services	\$ -	\$ -	\$ -	\$ -	0.00%
Task 2 – Pre-Final Design Phase Services	\$ 8,250.00	\$ -	\$ -	\$ 8,250.00	3.29%
Task 3 – Final Design Phase Services	\$ 4,050.00	\$ -	\$ -	\$ 4,050.00	1.62%
Task 4 – Bidding Phase Services	\$ 600.00	\$ -	\$ -	\$ 600.00	0.24%
Task 5 – Construction Phase Services	\$ -	\$ 2,100.00	\$ -	\$ 2,100.00	0.84%
Task 6 – Closeout Phase Services	\$ -	\$ 1,500.00	\$ -	\$ 1,500.00	0.60%
Sub-Consultants (DBE) Subtotal	\$ 12,900.00	\$ 3,600.00	\$ -	\$ 16,500.00	6.59%
Grand Total				\$ 250,459.19	100.00%



SUMMARY OF PROFESSIONAL FEES

El Paso International Airport
Runway 8R-26L Rehabilitation

DESIGN, BIDDING, AND CONSTRUCTION PHASE SERVICES - AMENDMENT NO. 1

SCOPE / TASK TITLE	PROJECT OFFICER	PROJECT MANAGER	PROGRAM MANAGER	ENGINEER II	ENGINEER III	ENGINEER IV	PLANNER IV	STRUCTURAL ENGINEER IV	DRAINAGE ENGINEER III	ELECTRICAL ENGINEER V	ADMIN III	TOTAL
Task 1 – Preliminary Design Phase Services												
Task 1.01 Perform Project Initiation / Setup		4.0			2.0						2.0	8.0
Task 1.02 Perform Data Collection and Research		4.0		12.0	8.0							24.0
Task 1.03 Obtain Geotechnical Investigation					2.0							2.0
Task 1.04 Obtain Design Topographical Survey				8.0	2.0							10.0
Task 1.05 Prepare Preliminary Design Documents												
Engineer's Report												0.0
Plans												
Cover Sheet												0.0
Index of Drawings (3 Sheets)												0.0
Abbreviations / Legend / Contact Information												0.0
Summary of Quantities (2 Sheets)												0.0
Contract Layout Plan												0.0
General Contract Notes												0.0
Safety and Security Notes												0.0
Survey Control Plan												0.0
Runway and Taxiway Alignment Plan												0.0
Geotechnical Boring Plan												0.0
Boring Logs (6 Sheets)												0.0
Construction Phasing and Safety Notes												0.0
Contractor Staging Area Plan												0.0
Contractor Access Plan												0.0
Overall Construction Phasing Sheet												0.0
Phasing Plans (8 Sheets)												0.0
Safety and Security Details												0.0
Runway Closure Details												0.0
Miscellaneous Closure Details												0.0
Temporary Electrical Details												0.0
Overall Existing Utility Plan												0.0
Existing Utility Plan (9 Sheets)												0.0
Overall Erosion Control Plan												
Erosion Control Plan (9 Sheets)												
Erosion Control Plan - Staging Area												
Erosion Control Notes and Details												
Subconsultant Coordination												0.0
Overall Demolition Plan												0.0
Demolition Plan (9 Sheets)												0.0
Existing Typical Sections (3 Sheets)												0.0
Demolition Details												0.0
Overall Runway Proposed Paving Plan												0.0
Geometry / Paving Plan (13 Sheets)												0.0
Taxiway Joint Seal and Crack Repair Plan (2 Sheets)												0.0
Geometry Plan Point Tables (4 Sheets)												0.0
Runway Typical Pavement Sections												0.0
Taxiway Typical Pavement Sections (2 Sheets)												0.0
Joint Details (2 Sheets)												0.0
Overall Runway Grading Plan												0.0
Runway Grading Plan (9 Sheets)												0.0
Taxiway Grading Plan (7 Sheets)												0.0
Pavement Profiles (9 Sheets)												0.0
Cross Sections (20 Sheets)												0.0
Overall Spot Elevation Plan												0.0
Spot Elevation Plan (15 Sheets)												0.0
Overall Grooving Plan												0.0
Grooving Plan (3 Sheets)												0.0
Grooving Plan Details												0.0
Overall Drainage Plan												
Drainage Plan (9 Sheets)												
Drainage Details												0.0
Subconsultant Coordination												0.0
Overall Site Restoration Plan												0.0



SUMMARY OF PROFESSIONAL FEES

El Paso International Airport
Runway 8R-26L Rehabilitation

DESIGN, BIDDING, AND CONSTRUCTION PHASE SERVICES - AMENDMENT NO. 1

SCOPE / TASK TITLE	PROJECT OFFICER	PROJECT MANAGER	PROGRAM MANAGER	ENGINEER II	ENGINEER III	ENGINEER IV	PLANNER IV	STRUCTURAL ENGINEER IV	DRAINAGE ENGINEER III	ELECTRICAL ENGINEER V	ADMIN III	TOTAL
Site Restoration Plan (9 Sheets)												0.0
Site Restoration Plan - Staging Area												0.0
Overall Pavement Marking Plan												0.0
Pavement Marking Plan (9 Sheets)												0.0
Pavement Marking Point Table (3 Sheets)												0.0
Pavement Marking Details												0.0
Electrical Plans												0.0
Subconsultant Coordination												0.0
Project Manual												0.0
Contract Documents												0.0
Technical Specifications												0.0
Compilation of Referenced Documents												0.0
Construction Safety Phasing Plan (CSPP)												0.0
Prepare CMP												0.0
EOPC												0.0
Task 1.06 Perform In-House Quality Control Review – Preliminary Design Docs												0.0
Task 1.07 Submit Preliminary Design Documents												0.0
Task 1.08 Meetings / Presentations												0.0
0 Task 1.09.01 Pre-Design Conference												0.0
0 Task 1.09.02 Site Investigation												0.0
0 Task 1.09.03 Design Development / Coordination Meetings												0.0
0 Task 1.09.04a Utility Coordination Meetings (On-site)												0.0
0 Task 1.09.04b Utility Coordination Meetings (Virtual)												0.0
0 Task 1.09.05 Coordination Meetings with Concurrent Airfield Projects												0.0
0 Task 1.09.06 Preliminary Design Documents Review Meeting												0.0
2 Task 1.09 Project Management and Administration												0.0
TOTAL HOURS	0.0	8.0	0.0	20.0	14.0	0.0	0.0	0.0	0.0	0.0	2.0	44.0
RATE	\$ 291.30	\$ 189.33	\$ 304.32	\$ 95.16	\$ 136.32	\$ 222.87	\$ 199.38	\$ 185.07	\$ 180.90	\$ 259.98	\$ 82.02	
TOTAL LABOR \$	\$ -	\$ 1,514.64	\$ -	\$ 1,903.20	\$ 1,908.48	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 164.04	\$ 5,490.36
OTHER DIRECT NON-SALARY COSTS												
	# PLANS	#PAGES	#SETS									
	@	@	0									
REPRODUCTION	\$ 1.10	\$ 0.15										
Plans	231											\$ -
Reports/Specifications		700										\$ -
TOTAL REPRODUCTION												\$ -
POSTAGE / DELIVERY	# PLANS	# SPECS										
	@	@										
	\$ 15.00	\$ 10.00										
Plans	0											\$ -
Reports/Specifications		0										\$ -
TOTAL POSTAGE / DELIVERY												\$ -
SUBCONSULTANTS												
Brock & Bustillos, Inc. (Topographical Survey)												\$ 22,862.66
Brock & Bustillos, Inc. (Civil)												
LEC Engineering, Inc. (Geotechnical Investigation)												\$ 32,710.00
Ferguson Consulting, Inc. (Electrical)												\$ -
TOTAL SUBCONSULTANTS												\$ 55,572.66



SUMMARY OF PROFESSIONAL FEES

El Paso International Airport
Runway 8R-26L Rehabilitation

DESIGN, BIDDING, AND CONSTRUCTION PHASE SERVICES - AMENDMENT NO. 1

SCOPE / TASK TITLE	PROJECT OFFICER	PROJECT MANAGER	PROGRAM MANAGER	ENGINEER II	ENGINEER III	ENGINEER IV	PLANNER IV	STRUCTURAL ENGINEER IV	DRAINAGE ENGINEER III	ELECTRICAL ENGINEER V	ADMIN III	TOTAL
TRAVEL												
	Flight @		Car @		Lodging @		Per Diem @		Tolls @		No. of	
	#People	#Days	\$ 625.00	\$ 85.00	\$ 135.00	\$ 35.00					Times	
Task 1.09.01 Pre-Design Conference	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0	\$ -
Task 1.09.02 Site Investigation	0	2	\$ -	\$ 85.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0	\$ -
Task 1.09.03 Design Development / Coordination Meetings	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0	\$ -
Task 1.09.04a Utility Coordination Meetings (On-site)	0	2	\$ -	\$ 85.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0	\$ -
Task 1.09.04b Utility Coordination Meetings (Virtual)	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0	\$ -
Task 1.09.05 Coordination Meetings with Concurrent Airfield Projects	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0	\$ -
Task 1.09.06 Preliminary Design Documents Review Meeting	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0	\$ -
												\$ -
												\$ -
MILEAGE	0	Miles @	\$ 0.50									\$ -
SUM OF ODC's												\$ 55,572.66
Total Proposed Fee for: Task 1 – Preliminary Design Phase Services												\$ 61,063.02
Task 2 – Pre-Final Design Phase Services												
Task 2.01 Incorporate Preliminary Design Review Comments												0.0
Task 2.02 Prepare Pre-Final Design Documents												
Engineer's Report		6.0		8.0	20.0							34.0
Plans												
Cover Sheet												0.0
Index of Drawings (3 Sheets)												0.0
Abbreviations / Legend / Contact Information												0.0
Summary of Quantities (2 Sheets)												0.0
Contract Layout Plan				2.0	1.0							3.0
General Contract Notes												0.0
Safety and Security Notes												0.0
Survey Control Plan				2.0	1.0							3.0
Runway and Taxiway Alignment Plan				2.0	1.0							3.0
Geotechnical Boring Plan				2.0	1.0							3.0
Boring Logs (6 Sheets)				2.0								2.0
Construction Phasing and Safety Notes												0.0
Contractor Staging Area Plan		2.0		2.0	1.0							5.0
Contractor Access Plan		2.0		2.0	1.0							5.0
Overall Construction Phasing Sheet		2.0		2.0	1.0							5.0
Phasing Plans (8 Sheets)		6.0		16.0	8.0							30.0
Safety and Security Details												0.0
Runway Closure Details												0.0
Miscellaneous Closure Details												0.0
Temporary Electrical Details												0.0
Overall Existing Utility Plan				4.0	1.0							5.0
Existing Utility Plan (9 Sheets)		2.0		6.0	2.0							10.0
Overall Erosion Control Plan				2.0								2.0
Erosion Control Plan (9 Sheets)				4.0	2.0							6.0
Erosion Control Plan - Staging Area												0.0
Erosion Control Notes and Details												0.0
Subconsultant Coordination												0.0
Overall Demolition Plan				2.0								2.0
Demolition Plan (9 Sheets)		4.0		16.0	8.0							28.0
Existing Typical Sections (3 Sheets)		2.0		8.0	6.0							16.0
Demolition Details												0.0
Overall Runway Proposed Paving Plan				2.0								2.0
Geometry / Paving Plan (13 Sheets)		4.0		20.0	8.0							32.0
Taxiway Joint Seal and Crack Repair Plan (2 Sheets)												0.0
Geometry Plan Point Tables (4 Sheets)				4.0								4.0
Runway Typical Pavement Sections												0.0
Taxiway Typical Pavement Sections (2 Sheets)		2.0		8.0	4.0							14.0
Joint Details (2 Sheets)												0.0
Overall Runway Grading Plan				2.0								2.0



SUMMARY OF PROFESSIONAL FEES

El Paso International Airport
Runway 8R-26L Rehabilitation

DESIGN, BIDDING, AND CONSTRUCTION PHASE SERVICES - AMENDMENT NO. 1

SCOPE / TASK TITLE	PROJECT OFFICER	PROJECT MANAGER	PROGRAM MANAGER	ENGINEER II	ENGINEER III	ENGINEER IV	PLANNER IV	STRUCTURAL ENGINEER IV	DRAINAGE ENGINEER III	ELECTRICAL ENGINEER V	ADMIN III	TOTAL
Runway Grading Plan (9 Sheets)												0.0
Taxiway Grading Plan (7 Sheets)		4.0		16.0	8.0							28.0
Pavement Profiles (9 Sheets)		4.0		16.0	8.0							28.0
Cross Sections (20 Sheets)		2.0		16.0	8.0							26.0
Overall Spot Elevation Plan				2.0								2.0
Spot Elevation Plan (15 Sheets)		2.0		10.0	4.0							16.0
Grooving Plan (3 Sheets)												0.0
Grooving Plan Details												0.0
Overall Drainage Plan												
Drainage Plan (9 Sheets)												
Drainage Details												0.0
Subconsultant Coordination												0.0
Overall Site Restoration Plan				2.0								2.0
Site Restoration Plan (9 Sheets)		2.0		8.0	4.0							14.0
Site Restoration Plan - Staging Area												0.0
Overall Pavement Marking Plan				1.0								1.0
Pavement Marking Plan (9 Sheets)		1.0		10.0	2.0							13.0
Pavement Marking Point Table (3 Sheets)				4.0								4.0
Pavement Marking Details												0.0
Electrical Plans												
Subconsultant Coordination		4.0			8.0							12.0
Project Manual												
Contract Documents		2.0			8.0							10.0
Technical Specifications		4.0			8.0							12.0
Compilation of Referenced Documents				4.0								4.0
Construction Safety Phasing Plan (CSPP)		4.0		4.0	8.0							16.0
Construction Management Plan (CMP)		6.0		4.0	16.0							26.0
EOPC				4.0	4.0							8.0
Task 2.03 Perform In-House Quality Control Review – Pre-Final Design Documents		8.0	4.0		8.0	8.0	4.0		4.0	4.0		40.0
Task 2.04 Submit Pre-Final Design Documents												0.0
Task 2.05 Meetings / Presentations												
1 Task 2.05.01 Design Development / Coordination Meetings		1.0			1.0							2.0
0 Task 2.05.02 Utility Coordination Meetings		0.0			0.0							0.0
1 Task 2.05.03 Coordination Meetings with Concurrent Airfield Projects		1.0			1.0							2.0
0 Task 2.05.04 Pre-Final Design Documents Review Meeting		0.0			0.0							0.0
5 Task 2.06 Project Management and Administration	1.0	10.0									5.0	16.0
TOTAL HOURS	1.0	87.0	4.0	219.0	162.0	8.0	4.0	0.0	4.0	4.0	5.0	498.0
RATE	\$ 291.30	\$ 189.33	\$ 304.32	\$ 95.16	\$ 136.32	\$ 222.87	\$ 199.38	\$ 185.07	\$ 180.90	\$ 259.98	\$ 82.02	
TOTAL LABOR \$	\$ 291.30	\$ 16,471.71	\$ 1,217.28	\$ 20,840.04	\$ 22,083.84	\$ 1,782.96	\$ 797.52	\$ -	\$ 723.60	\$ 1,039.92	\$ 410.10	\$ 65,658.27
OTHER DIRECT NON-SALARY COSTS												
		# PLANS	#PAGES	#SETS								
		@	@	5								
REPRODUCTION		\$ 1.10	\$ 0.15									
Plans		200										\$ 1,100.00
Reports/Specifications			600									\$ 450.00
TOTAL REPRODUCTION												\$ 1,550.00
POSTAGE / DELIVERY		# PLANS	# SPECS									
		@	@									
		\$ 15.00	\$ 10.00									
Plans												\$ -
Reports/Specifications												\$ -
TOTAL POSTAGE / DELIVERY												\$ -



SUMMARY OF PROFESSIONAL FEES

**El Paso International Airport
Runway 8R-26L Rehabilitation**

DESIGN, BIDDING, AND CONSTRUCTION PHASE SERVICES - AMENDMENT NO. 1

SCOPE / TASK TITLE	PROJECT OFFICER	PROJECT MANAGER	PROGRAM MANAGER	ENGINEER II	ENGINEER III	ENGINEER IV	PLANNER IV	STRUCTURAL ENGINEER IV	DRAINAGE ENGINEER III	ELECTRICAL ENGINEER V	ADMIN III	TOTAL
SUBCONSULTANTS												
Brock & Bustillos, Inc. (Topographical Survey)												\$ -
Brock & Bustillos, Inc. (Civil)												\$ -
LEC Engineering, Inc. (Geotechnical Investigation)												\$ -
Ferguson Consulting, Inc. (Electrical)												\$ 8,250.00
TOTAL SUBCONSULTANTS												\$ 8,250.00
TRAVEL												
				Flight @	Car @	Lodging @	Per Diem @	Tolls @			No. of	
	#People	#Days	\$	625.00	\$	85.00	\$	135.00	\$	35.00	\$	Times
Task 2.05.01 Design Development / Coordination Meetings	2	0	\$	-	\$	-	\$	-	\$	-	\$	0
Task 2.05.02 Utility Coordination Meetings	2	0	\$	-	\$	-	\$	-	\$	-	\$	0
Task 2.05.03 Coordination Meetings with Concurrent Airfield Projects	2	0	\$	-	\$	-	\$	-	\$	-	\$	0
Task 2.05.04 Pre-Final Design Documents Review Meeting	2	0	\$	-	\$	-	\$	-	\$	-	\$	0
												\$ -
												\$ -
MILEAGE		0	Miles @	\$	0.50							\$ -
SUM OF ODC's												\$ 9,800.00
Total Proposed Fee for: Task 2 – Pre-Final Design Phase Services												\$ 75,458.27
Task 3 – Final Design Phase Services												
Task 3.01 Incorporate Pre-Final Review Comments		4.0			8.0	16.0						28.0
Task 3.02 Prepare Final Design Documents												
Engineer's Report		2.0			2.0	8.0						12.0
Plans												
Cover Sheet												0.0
Index of Drawings (3 Sheets)												0.0
Abbreviations / Legend / Contact Information												0.0
Summary of Quantities (2 Sheets)												0.0
Contract Layout Plan					2.0	1.0						3.0
General Contract Notes												0.0
Safety and Security Notes												0.0
Survey Control Plan					2.0	1.0						3.0
Runway and Taxiway Alignment Plan					2.0	1.0						3.0
Geotechnical Boring Plan					2.0	1.0						3.0
Boring Logs (6 Sheets)					2.0							2.0
Construction Phasing and Safety Notes												0.0
Contractor Staging Area Plan		2.0			2.0	1.0						5.0
Contractor Access Plan		2.0			2.0	1.0						5.0
Overall Construction Phasing Sheet		2.0			2.0	1.0						5.0
Phasing Plans (8 Sheets)		5.0			12.0	6.0						23.0
Safety and Security Details												0.0
Runway Closure Details												0.0
Miscellaneous Closure Details												0.0
Temporary Electrical Details												0.0
Overall Existing Utility Plan					3.0	1.0						4.0
Existing Utility Plan (9 Sheets)		2.0			5.0	2.0						9.0
Overall Erosion Control Plan					2.0							2.0
Erosion Control Plan (9 Sheets)					3.0	2.0						5.0
Erosion Control Plan - Staging Area												0.0
Erosion Control Notes and Details												0.0
Subconsultant Coordination												0.0
Overall Demolition Plan					2.0							2.0
Demolition Plan (9 Sheets)		3.0			12.0	6.0						21.0
Existing Typical Sections (3 Sheets)		2.0			6.0	5.0						13.0
Demolition Details												0.0
Overall Runway Proposed Paving Plan					2.0							2.0
Geometry / Paving Plan (13 Sheets)		3.0			15.0	6.0						24.0
Taxiway Joint Seal and Crack Repair Plan (2 Sheets)												0.0
Geometry Plan Point Tables (4 Sheets)					3.0							3.0
Runway Typical Pavement Sections												0.0



SUMMARY OF PROFESSIONAL FEES

El Paso International Airport
Runway 8R-26L Rehabilitation

DESIGN, BIDDING, AND CONSTRUCTION PHASE SERVICES - AMENDMENT NO. 1

SCOPE / TASK TITLE	PROJECT OFFICER	PROJECT MANAGER	PROGRAM MANAGER	ENGINEER II	ENGINEER III	ENGINEER IV	PLANNER IV	STRUCTURAL ENGINEER IV	DRAINAGE ENGINEER III	ELECTRICAL ENGINEER V	ADMIN III	TOTAL
Taxiway Typical Pavement Sections (2 Sheets)		2.0		6.0	3.0							11.0
Joint Details (2 Sheets)												0.0
Overall Runway Grading Plan				2.0								2.0
Runway Grading Plan (9 Sheets)												0.0
Taxiway Grading Plan (7 Sheets)		3.0		12.0	6.0							21.0
Pavement Profiles (9 Sheets)		3.0		12.0	6.0							21.0
Cross Sections (20 Sheets)		2.0		12.0	6.0							20.0
Overall Spot Elevation Plan				2.0								2.0
Spot Elevation Plan (15 Sheets)		2.0		8.0	3.0							13.0
Overall Grooving Plan												0.0
Grooving Plan (3 Sheets)												0.0
Grooving Plan Details												0.0
Overall Drainage Plan												
Drainage Plan (9 Sheets)												
Drainage Details												0.0
Subconsultant Coordination												0.0
Overall Site Restoration Plan				2.0								2.0
Site Restoration Plan (9 Sheets)		2.0		6.0	3.0							11.0
Site Restoration Plan - Staging Area												0.0
Overall Pavement Marking Plan				1.0								1.0
Pavement Marking Plan (9 Sheets)		1.0		8.0	2.0							11.0
Pavement Marking Point Table (3 Sheets)				3.0								3.0
Pavement Marking Details												0.0
Electrical Plans												
Subconsultant Coordination		3.0			6.0							9.0
Project Manual												
Contract Documents		2.0			6.0							8.0
Technical Specifications		3.0			6.0							9.0
Compilation of Referenced Documents				3.0								3.0
Construction Safety Phasing Plan (CSPP)		3.0		3.0	6.0							12.0
Construction Management Plan		5.0		3.0	12.0							20.0
EOPC				3.0	3.0							6.0
Task 3.03 Perform In-House Quality Control Review – Final Design Documents		8.0	4.0		8.0	8.0	4.0		4.0	4.0		40.0
Task 3.04 Submit Final Design Documents												0.0
Task 3.05 Meetings / Presentations												
0 Task 3.05.01 Design Development / Coordination Meetings		0.0			0.0							0.0
4 Task 3.06 Project Management and Administration	1.0	8.0									4.0	13.0
TOTAL HOURS	1.0	74.0	4.0	177.0	135.0	8.0	4.0	0.0	4.0	4.0	4.0	415.0
RATE	\$ 291.30	\$ 189.33	\$ 304.32	\$ 95.16	\$ 136.32	\$ 222.87	\$ 199.38	\$ 185.07	\$ 180.90	\$ 259.98	\$ 82.02	
TOTAL LABOR \$	\$ 291.30	\$ 14,010.42	\$ 1,217.28	\$ 16,843.32	\$ 18,403.20	\$ 1,782.96	\$ 797.52	\$ -	\$ 723.60	\$ 1,039.92	\$ 328.08	\$ 55,437.60
OTHER DIRECT NON-SALARY COSTS												
		# PLANS	# PAGES	# SETS								
		@	@	5								
REPRODUCTION		\$ 1.10	\$ 0.15									
Plans		75										\$ 413.00
Reports/Specifications			100									\$ 75.00
TOTAL REPRODUCTION												\$488
POSTAGE / DELIVERY		# PLANS	# SPECS									
		@	@									
		\$ 15.00	\$ 10.00									
Plans												\$ -
Reports/Specifications												\$ -
TOTAL POSTAGE / DELIVERY												\$ -



SUMMARY OF PROFESSIONAL FEES

**El Paso International Airport
Runway 8R-26L Rehabilitation**

DESIGN, BIDDING, AND CONSTRUCTION PHASE SERVICES - AMENDMENT NO. 1

SCOPE / TASK TITLE	PROJECT OFFICER	PROJECT MANAGER	PROGRAM MANAGER	ENGINEER II	ENGINEER III	ENGINEER IV	PLANNER IV	STRUCTURAL ENGINEER IV	DRAINAGE ENGINEER III	ELECTRICAL ENGINEER V	ADMIN III	TOTAL
SUBCONSULTANTS												
Brock & Bustillos, Inc. (Topographical Survey)												\$ -
Brock & Bustillos, Inc. (Civil)												\$ -
LEC Engineering, Inc. (Geotechnical Investigation)												\$ 4,050.00
Ferguson Consulting, Inc. (Electrical)												\$ -
TOTAL SUBCONSULTANTS												\$ 4,050.00
TRAVEL												
				Flight @	Car @	Lodging @	Per Diem @	Tolls @	No. of			
	#People	#Days	\$	\$	\$	\$	\$	\$	Times			
Task 3.05.01 Design Development / Coordination Meetings	2	0	\$ -	\$ -	\$ -	\$ 625.00	\$ 35.00	\$ -	0			\$ -
												\$ -
MILEAGE												
		0	Miles @ \$	0.50								\$ -
SUM OF ODC's												\$ 4,538.00
Total Proposed Fee for: Task 3 – Final Design Phase Services												\$ 59,975.60
Task 4 – Bidding Phase Services												
Task 4.01 Provide Bidding Assistance												0.0
Task 4.02 Respond to Bidder / Contractor Inquiries		1.0		2.0	2.0							5.0
Task 4.03 Issue Addenda		2.0		12.0	8.0							22.0
Task 4.04 Evaluate Bids												0.0
Task 4.05 Meetings / Presentations												0.0
0 Task 4.05.01 Pre-bid Conference					0.0							0.0
5 Task 4.06 Project Management and Administration												0.0
TOTAL HOURS	0.0	3.0	0.0	14.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	27.0
RATE	\$ 291.30	\$ 189.33	\$ 304.32	\$ 95.16	\$ 136.32	\$ 222.87	\$ 199.38	\$ 185.07	\$ 180.90	\$ 259.98	\$ 82.02	
TOTAL LABOR \$	\$ -	\$ 567.99	\$ -	\$ 1,332.24	\$ 1,363.20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,263.43
OTHER DIRECT NON-SALARY COSTS												
	# PLANS	#PAGES	#SETS									
	@	@	0									
REPRODUCTION	\$ 1.10	\$ 0.15										
Plans	75											\$ -
Reports/Specifications		100										\$ -
TOTAL REPRODUCTION												\$ -
POSTAGE / DELIVERY	# PLANS	# SPECS										
	@	@										
	\$ 15.00	\$ 10.00										
Plans	0											\$ -
Reports/Specifications		0										\$ -
TOTAL POSTAGE / DELIVERY												\$ -
SUBCONSULTANTS												
Brock & Bustillos, Inc. (Topographical Survey)												\$ -
Brock & Bustillos, Inc. (Civil)												\$ -
LEC Engineering, Inc. (Geotechnical Investigation)												\$ -
Ferguson Consulting, Inc. (Electrical)												\$ 600.00
TOTAL SUBCONSULTANTS												\$ 600.00



SUMMARY OF PROFESSIONAL FEES

El Paso International Airport
Runway 8R-26L Rehabilitation

DESIGN, BIDDING, AND CONSTRUCTION PHASE SERVICES - AMENDMENT NO. 1

SCOPE / TASK TITLE	PROJECT OFFICER	PROJECT MANAGER	PROGRAM MANAGER	ENGINEER II	ENGINEER III	ENGINEER IV	PLANNER IV	STRUCTURAL ENGINEER IV	DRAINAGE ENGINEER III	ELECTRICAL ENGINEER V	ADMIN III	TOTAL		
TRAVEL														
	Flight @		Car @		Lodging @		Per Diem @		Tolls @		No. of			
	#People	#Days	\$	625.00	\$	85.00	\$	135.00	\$	35.00	\$	-	Times	
Task 4.05.01 Pre-bid Conference	1	1	\$	-	\$	-	\$	-	\$	35.00	\$	-	0	
												\$	-	
												\$	-	
MILEAGE														
	0	Miles @	\$	0.50									\$	-
SUM OF ODC's												\$	600.00	
Total Proposed Fee for: Task 4 – Bidding Phase Services														
												\$	3,863.43	
Task 5 – Construction Phase Services														
Task 5.01 Prepare Conformed Construction Documents				8.0	4.0							12.0		
Task 5.02 Review Contractor Submittals, Shop Drawings, and Samples		4.0		20.0	12.0					2.0	8.0	46.0		
Task 5.03 Provide Clarifications and Interpretations		4.0		24.0	16.0							44.0		
Task 5.04 Prepare Change Orders and Work Change Directives		6.0		24.0	16.0			2.0				48.0		
Task 5.05 Review Independent Testing Laboratory Reports		6.0			24.0							30.0		
Task 5.06 Meetings / Presentations														
0 Task 5.08.01 Pre-Construction Conference												0.0		
5 Task 5.08.02 Weekly Construction Progress Meetings		2.5			5.0							7.5		
2 Task 5.08.03 Periodic Site Visits		8.0			16.0							24.0		
0 Task 5.08.04 Substantial Completion Inspection												0.0		
0 Task 5.08.05 Final Inspection												0.0		
5 Task 5.07 General Administration of the Construction Contract	1.0	10.0									5.0	16.0		
TOTAL HOURS	1.0	40.5	0.0	76.0	93.0	0.0	0.0	2.0	0.0	2.0	13.0	227.5		
RATE	\$ 309.04	\$ 200.86	\$ 322.85	\$ 105.60	\$ 144.62	\$ 236.44	\$ 211.52	\$ 196.34	\$ 177.44	\$ 275.81	\$ 87.02			
TOTAL LABOR \$	\$ 309.04	\$ 8,134.83	\$ -	\$ 8,025.60	\$ 13,449.66	\$ -	\$ -	\$ 392.68	\$ -	\$ 551.62	\$ 1,131.26	\$ 31,994.69		
OTHER DIRECT NON-SALARY COSTS														
	# PLANS	#PAGES	#SETS											
	@	@	0											
REPRODUCTION	\$ 1.10	\$ 0.15												
Plans	231													
Reports/Specifications		700												
TOTAL REPRODUCTION														
POSTAGE / DELIVERY	# PLANS	# SPECS												
	@	@												
	\$ 15.00	\$ 10.00												
Plans	0													
Reports/Specifications		0												
TOTAL POSTAGE / DELIVERY														
SUBCONSULTANTS														
Brock & Bustillos, Inc. (As-built Survey)												\$	-	
Brock & Bustillos, Inc. (Civil)												\$	-	
LEC Engineering, Inc. (Geotechnical Investigation)												\$	-	
Ferguson Consulting, Inc. (Electrical)												\$	2,100.00	
TOTAL SUBCONSULTANTS												\$	2,100.00	



SUMMARY OF PROFESSIONAL FEES

**EI Paso International Airport
Runway 8R-26L Rehabilitation**

DESIGN, BIDDING, AND CONSTRUCTION PHASE SERVICES - AMENDMENT NO. 1

SCOPE / TASK TITLE	PROJECT OFFICER	PROJECT MANAGER	PROGRAM MANAGER	ENGINEER II	ENGINEER III	ENGINEER IV	PLANNER IV	STRUCTURAL ENGINEER IV	DRAINAGE ENGINEER III	ELECTRICAL ENGINEER V	ADMIN III	TOTAL
TRAVEL												
	#People	#Days	Flight @ \$	Car @ \$	Lodging @ \$	Per Diem @ \$	Tolls @ \$	No. of Times				
Task 5.08.01 Pre-Construction Conference	0	1	\$ -	\$ -	\$ -	\$ -	\$ -	0				\$ -
Task 5.08.02 Weekly Construction Progress Meetings	2	1	\$ 1,250.00	\$ -	\$ -	\$ 70.00	\$ -	5				\$ 6,600.00
Task 5.08.03 Periodic Site Visits	1.5	2	\$ 937.50	\$ 85.00	\$ 202.50	\$ 105.00	\$ -	2				\$ 2,660.00
Task 5.08.04 Substantial Completion Inspection	0	2	\$ -	\$ 85.00	\$ -	\$ -	\$ -	0				\$ -
Task 5.08.05 Final Inspection	0	2	\$ -	\$ 85.00	\$ -	\$ -	\$ -	0				\$ -
												\$ 9,260.00
MILEAGE	390	Miles @	\$ 0.50									\$ 195.00
SUM OF ODC's												\$ 11,555.00
Total Proposed Fee for: Task 5 – Construction Phase Services												\$ 43,549.69
Task 6 – Closeout Phase Services												
Task 6.01 Prepare Closeout Documents				12.0	8.0							20.0
Task 6.02 Meetings / Presentations												0.0
0 Warranty Inspection				12.0	8.0							21.0
Task 6.03 Coordinate Contractor As-Built Survey and AGIS Upload		1.0										
TOTAL HOURS	0.0	1.0	0.0	24.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	41.0
RATE	\$ 309.04	\$ 200.86	\$ 322.85	\$ 105.60	\$ 144.62	\$ 236.44	\$ 211.52	\$ 196.34	\$ 177.44	\$ 275.81	\$ 87.02	
TOTAL LABOR \$	\$ -	\$ 200.86	\$ -	\$ 2,534.40	\$ 2,313.92	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,049.18
OTHER DIRECT NON-SALARY COSTS												
	# PLANS	#PAGES	#SETS									
	@	@	0									
REPRODUCTION	\$ 1.10	\$ 0.15										
Plans	231											
Reports/Specifications		700										
TOTAL REPRODUCTION												
POSTAGE / DELIVERY	# PLANS	# SPECS										
	@	@										
	\$ 15.00	\$ 10.00										
Plans	0											
Reports/Specifications		0										
TOTAL POSTAGE / DELIVERY												
SUBCONSULTANTS												
Brock & Bustillos, Inc. (Civil)												
LEC Engineering, Inc. (Geotechnical Investigation)												
Ferguson Consulting, Inc. (Electrical)												
TOTAL SUBCONSULTANTS												
TRAVEL	#People	#Days	Flight @ \$	Car @ \$	Lodging @ \$	Per Diem @ \$	Tolls @ \$	No. of Times				
Warranty Inspection	1	2	\$ -	\$ 85.00	\$ -	\$ 70.00	\$ -	0				\$ -
												\$ -
MILEAGE	0	Miles @	\$ 0.50									\$ -
SUM OF ODC's												\$ 1,500.00
Total Proposed Fee for: Task 6 – Closeout Phase Services												\$ 6,549.18
Total Proposed Fee for all Services:												\$ 250,459.19

Labor Category	Hourly Rate
MANAGEMENT	
Project Officer	\$309.04
Program Manager	\$322.85
Project Manager	\$200.86
CIVIL ENGINEER / AVIATION	
Engineer I	\$97.93
Engineer II	\$105.60
Engineer III	\$144.62
Engineer IV	\$236.44
Engineer V	\$254.43
ELECTRICAL ENGINEER / AVIATION	
Engineer II	\$119.64
Engineer IV	\$210.22
Engineer V	\$275.81
STRUCTURAL ENGINEER	
Engineer II	\$120.91
Engineer III	\$169.13
Engineer IV	\$196.34
Engineer V	\$246.34
PLANNER / AVIATION	
Aviation Planner I	\$98.70
Aviation Planner II	\$112.64
Aviation Planner III	\$144.14
Aviation Planner IV	\$211.52
Aviation Planner V	\$309.04
ENVIRONMENTAL / DRAINAGE ENGINEER	
Environmental / Drainage Engineer I	\$102.16
Environmental / Drainage Engineer II	\$128.93
Environmental / Drainage Engineer III	\$177.44
Environmental / Drainage Engineer IV	\$191.92
GENERAL, SPECIALTY, & SUPPORT	
Administration II	\$75.11
Administration III	\$87.02
Technical (CADD/GIS) Designer I	\$97.93
Technical (CADD/GIS) Designer II	\$105.60
Technical (CADD/GIS) Designer III	\$140.80
GIS Manager	\$168.36
CONSTRUCTION MANAGEMENT	
Field Representative III	\$143.22
Field Representative IV	\$202.77
Field Representative V	\$202.90

1. The schedule of hourly rates above is only included for Construction Administration and Closeout services and is not applicable to design and bidding services (completed as lump sum).
2. The schedule of hourly rates above is only effective for the date range shown. If work is required outside the date range shown, rates are subject to negotiation with the Client.
3. Reimbursement for expenses will be at the cost of the item expenses. Reimbursement for mileage will be at a rate of \$0.50 / mile.