

EG SOLUTIONS, INC.
WETLAND MITIGATION PHASE 2 of 2
AMENDMENT NO. 4

In accordance with the provisions of the Engineering Agreement for Planning and Engineering Professional Consulting Services dated April 19, 2018, EG Solutions, Inc., (Consultant) agrees to following amended services:

Scope of Services:

The scope of work includes design, permitting, construction and closeout services for Phase 2 of 2 of the Wetlands Mitigation project. Phase 2 will fill approximately 35 acres of existing wetlands on airport property, expand the drainage ditch north of wetland I. The wetlands to be mitigated in Phase 2 include B2, B3, I, I1, I2, I3 and I4. See attached Exhibit "A" for details.

Basis of Compensation:

The fee for the items listed above is \$141,327.00. See attached Exhibit "A" for details.

**CHARLOTTE COUNTY
AIRPORT AUTHORITY**

By

James W. Parish, P.E.

Print Name

CEO

Print Title

Date

3/18/21

EG SOLUTIONS, INC.

By

Gloria C. Brady

Print Name

President

Print Title

Date

03-10-2021

EXHIBIT “A”
SCOPE OF SERVICES
PUNTA GORDA AIRPORT
WETLAND MITIGATION PHASE 2

Design, Permitting, Bidding, Construction, and Closeout Services

PROJECT DESCRIPTION

This project consists of the design, permitting and construction required to fill approximately 35 acres of existing wetlands on airport property, expand the drainage ditch north of wetland I and the purchase of required wetland mitigation credits. The wetlands to be mitigated in Phase 2 include B2, B3, I, I1, I2, I3 and I4. Phase 2 of the wetland mitigation work is scheduled to be completed in FY 22. See Exhibit “C”.

The engineering services include: field surveys, design, construction plan preparation, engineering and wetland mitigation permitting, bidding assistance, construction site visits , engineering construction services and closeout services as described in detail below. Construction activities will be completed by a contractor selected as part of the bidding phase.

SCOPE OF SERVICES

BASIC SERVICES

Design

1. Data Collection and Engineering Site Visit

Level of Service:

Members of the project design team will participate in a kick-off meeting and on the same day conduct a site visit to review and document existing field conditions. . Photographs and notes will be recorded.

Deliverables:

- Kick-off Meeting agenda notes and electronic PDF versions of the field notes and photographs from the site visit.

2. Construction Plans

Level of Service:

Update construction plans depicting the work required to clear and fill the wetlands, following applicable FAA Advisory Circulars and Specifications. It is noted that under the Phase 1 of this project, grading, erosion and sedimentation control and cross sections were developed for the Phase 2 wetlands. These existing plan sheets will be updated. New grading, erosion and sedimentation control and cross section plan sheets will be developed for Wetland I, I1, I2, I3 and I4 conveyance system to the north for required permitting requirements.

The construction plan set shall include, but not be limited to the following sheets:

- Plan view of each wetland area showing surrounding land features and wetland boundary. These plans will ultimately portray necessary Soil Erosion and Sedimentation Control.
- Cross section view of each wetland ultimately portraying existing and final grades
- Profile of existing open channel drainage and final profile
- Technical specification coordination
- Preparation of preliminary bid quantities
- Secure and manage topographic survey services

Deliverables:

- Electronic PDF versions of the construction plans.

3. Construction Safety and Phasing Plan (CSPP)

Level of Service:

Using Task 1 information, prepare the narrative report and phasing plan sheets in accordance with FAA Advisory Circular 150/5370-2G and the associated FAA Standard Operating Procedure 1.00 and checklist. This effort will be coordinated with the Runway 4-22 Reconstruction project. It is anticipated that the wetlands project will be incorporated into the Runway 4-22 Reconstruction project's CSPP.

Deliverables:

- Electronic PDF version of the stand-alone CSPP narrative report with phasing plan sheets, and checklist

4. Design Review/Pre-Design Meeting

Level of Service:

Coordinate a pre-design meeting with the Airport, FAA and other stakeholders as applicable. Prepare meeting agenda at least three (3) days in advance of the meeting along with any handout documents. Attend meeting, record and prepare meeting notes.

Deliverables:

- Electronic PDF version of the meeting agenda, notes, and handouts.

The deliverables from the above tasks will be submitted to the Airport for review as the Preliminary Submittal as indicated on the project schedule.

5. Specifications

Level of Service:

Prepare the project specifications using the standard specifications of FAA Advisory Circular 150/5370-10, latest change current as of the date of this task order, adapted to the project including any proposed modifications to standards. It is noted that under the Phase 1 of this project, specifications were developed.

Deliverables:

- Electronic PDF versions of the draft project specifications.

6. Engineer's Report

Level of Service:

Update the existing Engineer's Report for the project. The report will discuss design criteria, specific design solutions and proposed modifications to standards. The Table of Contents will include the following Sections:

1. General Information
2. Project Data - Includes Opinion of Construction and Wetland Mitigation Costs
3. Airport Information
4. Description of Work
5. Reviews and Permits
6. Wetland Characterization and Mitigation
7. Grading Design
8. Availability of Contractors/DBE Participation Opportunities
9. Sources of Materials
10. Work by Others

11. Sequence of Construction
12. Non-AIP Items (if applicable)
13. Modifications to FAA Standards (if applicable)

Deliverables:

- Electronic PDF versions signed and sealed by a Florida Registered Professional Engineer along with two (2) bound hard copy prints.

The deliverables for the above tasks will be submitted to the Airport for review as the Final Design Submittal as indicated on the project schedule.

7. Bidding Documents

Level of Service:

Incorporate Airport review comments from the Final Construction plans, specifications and engineer's report for bidding.

Deliverables:

- Electronic PDF versions of Bid Documents

Bidding Services

1. Pre-Bid Meeting

Level of Service:

Attend one (1) pre-bid meeting with Airport and contractors. Prepare meeting agenda, sign-in sheet and meeting notes. The meeting notes and sign-in sheet will be electronically distributed to attendees.

Deliverables:

- Meeting agenda, sign-in sheet and notes distributed to meeting attendees.

2. Addenda Packages and Clarification Letters

Level of Service:

Prepare up to two (2) addenda packages and clarification letters in response to bidder questions under the direction of the Project Engineers as applicable.

Deliverables:

- Responses to bidder questions and revisions to applicable construction plans and specifications.

3. Bid Opening, Tabulation of Bids and Recommendation of Award Letter

Level of Service:

The letter of recommendation will comment on the responsiveness and regularity of the bidders' submittal items, and either recommend award to the low responsive and responsible bidder or rejection of bids if none are acceptable.

Deliverables:

- Certified Bid Tabulation
- Evaluation of responsiveness
- Letter of Recommendation for award or if no bids are acceptable, for rejection.

Construction Phase Services

1. Conformed Contract Documents

Level of Service:

The project specifications and construction plans, as prepared for bidding, will be updated as “conformed” to include the items from the Bidding Phase; Pre-Bid meeting notes, bidder submittal items and construction plans sheets for distribution to the Airport, FAA, FDOT, Contractor and Engineer.

Deliverables:

- Electronic PDF versions of conformed contract documents, specifications and construction plans signed and sealed by a Florida Registered Engineer. Two hard copies of each document will also be submitted.

2. Pre-Construction Meeting / Construction Progress Meetings / Project Engineer Site Visits

Level of Service:

Attend construction progress meetings/project engineer site visits to participate, discuss and coordinate project specifics. Meeting topics may include but are not limited to; key contact personnel, lines of communication, submittals, responses to contractor request for information, change orders, and review administrative and reporting procedures.

Conduct site visits to observe construction progress, general character, and quality of the work. The site visits will be scheduled to occur on days where construction progress meetings are held.

In addition to attending the pre-construction meeting, construction progress meetings/engineer site visits, prepare the meeting agenda, sign-in sheet and meeting notes.

A total of eight (8) meetings and/or site visits are included.

Deliverables:

- Meeting agenda, sign-in sheet and notes will be prepared and distributed in electronic PDF for each meeting attended.
- Copies of notes from the engineer site visits.

3. Contractor Submittals

Level of Service:

Review contractor submittals for general conformance with the design concept. Each submittal will be reviewed initially. One subsequent review of a corrected or alternate submittal or required by non-conformance by the Contractor is included.

Deliverables:

- Returned submittals with action indicated.

4. Contractor Request for Information (RFI)

Level of Service:

Review contractor requests for information and provide clarification of design intent.

Deliverables:

- Returned RFIs with response.

5. Evaluate Contractor Pay Requests

Level of Services:

Review Contractor pay requests based on test results and periodic on-site observation and recommend payment, including adjustments in accordance with the contract documents.

Deliverables:

- Copies of approved pay requests along with backup information, as applicable.

6. Change Orders

Level of Service:

Coordinate and prepare change orders as applicable to address changes in work and/or unforeseen field conditions. This task includes minor revisions to existing drawings.

Deliverables:

- Copies of proposed change orders with minor revisions to existing drawingsheets.

Project Closeout Services

1. Project Closeout

Level of Service:

Completion Site Visits

Conduct one (1) site visit for substantial completion. Prepare a punch list of items to be completed or corrected prior to the final acceptance. Conduct one (1) site visit for final acceptance to review contractor's compliance and corrections of the substantial completion punch list items.

FAA Closeout

Prepare a project closeout book summarizing compliance with FAA and FDOT construction standards, except approved modifications. Summarize project costs and changes. The expected table of contents is as follows:

Final Acceptance Letter

Section 1	Final Inspection/Substantial Completion
1.1	Final Acceptance Letter
1.2	Certificates of Substantial Completion
	Section 2
	Construction Quantities and Costs
2.1	Summary of Construction Costs
2.2	Summary of Final Construction Quantities
2.3	Final Application for Payment
2.4	Final Release Form
2.5	Consent of Survey for Final Payment and Power of Attorney
2.6	Summary of Contract Time
Section 3	Construction of Quality Assurance
3.1	Material Certifications and Submittals
Section 4	Engineering Cost Summary
4.1	Summary of Engineering Costs
4.2	Summary of Resident Project Representative Time
Section 5	Disadvantage Business Enterprise Participation
5.1	DBE Reporting Form
Section 6	Record Drawings

Deliverables:

- Attendance at the site visits, copies of the punch list report, certification forms and project closeout book.

Water Management, FDEP and ACOE Closeout

Level of Service:

Prepare the Water Management District, FDEP and ACOE closeout/certification documents.

Record Documents

Prepare record contract documents. These documents will reflect any alterations to the design during construction as a result of Engineer's Supplemental Instructions (ESIs), Request for Information (RFIs) and Change Orders (COs).

Deliverables:

- Electronic PDF versions of Record Documents along with two (2) hard copies will be submitted.

OTHER SERVICES

1. Design Surveys

Level of Service:

Conduct design topographical surveys of the project limits under the direction of a Florida Registered Surveyor.

Deliverables:

- *[to be delivered as part of Kimley Horn contract]*

2. Environmental Resource Permitting and Section 404 Permitting

Level of Service:

ESA will support EGS with the Environmental Resource Permitting (ERP) with the Southwest Florida Water Management District (SWFWMD) and section 404 permit coordination with the Florida Department of Environmental Protection (FDEP). Because the state assumed authority to implement federal section 404 permitting (effective December 2020), the assumption is new and implementation is an evolving process so the specific tasks required within this scope may vary slightly as FDEP takes over elements of the program. Since ESA secured a section 404 permit from the USACE under Phase 1 of this project, a new permit should not be required. Rather, coordination with FDEP and USACE to provide the requisite information and secure the 404 coordination is complete will be the focus of this task.

For the ERP, tasks will include, at a minimum:

- Field delineation to establish SWFWMD wetland jurisdictional limits, record all points using sub-meter accurate GPS (suitable for permitting) and develop detailed wetland functional assessments for both agencies pursuant to their specific rules.
- Agency site visit(s) with SWFWMD (and FDEP and / or USACE, if required) to obtain concurrence on wetland limits and functional assessments.
- Attend pre-application meeting with SWFWMD
- Complete the required data sheets and jurisdictional packages and develop the functional analyses (UMAM and WRAP, if required) and negotiate the functional value of the impacted wetlands with the agencies.
- Prepare formal permit application forms and associated exhibits.
- Complete the mitigation planning and assist the airport with securing mitigation credits.
- Responses for up to two Requests for Additional Information, from SWFWMD. There are no RAIs expected from FDEP or USACE.
- Also includes two meetings either at the airport or the regulatory agency office.

Deliverables:

- Pre-application meeting agenda and notes.
- Permit applications, exhibits to each agency and responses to secure permit from SWFWMD

3. Geotechnical

Level of Service:

Perform auger probes at each wetland location to determine the approximate depth and limits of unsuitable/sub-soil excavation

Deliverables:

- Results of auger probes

EXCLUDED SERVICES

1. Permit fees.
2. Purchase of mitigation credits.
3. RPR
4. QA assurance and testing
5. Formal listed species surveys – (if species specific surveys are required through permitting, these would require additional services)
6. Mitigation for listed species impacts, including permitting and relocation of species (i.e. gopher tortoise, burrowing owl)
7. NEPA compliance or FAA coordination beyond permitting requirements

End of Scope of Services

**HOUR AND FEE PROPOSAL
WETLAND MITIGATION, PHASE 2
PUNTA GORDA AIRPORT**

Position:	PRINCIPAL QA/QC		PROJECT MANAGER		ENGINEER		ADMIN		TOTAL	
	\$260		\$245		\$130		\$95			
	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost
Design										
Kick-off Meeting, Data Collection and Engineering Site Visit		\$0	4	\$980	4	\$520		\$0	8	\$1,500
Subconsultant Coordination	2	\$520	1	\$245	2	\$260	8	\$760	13	\$1,785
Construction Plans (KH)		\$0	6	\$1,470	20	\$2,600		\$0	26	\$4,070
Construction Safety and Phasing Plan			4	\$980	8	\$1,040	4	\$380	16	\$2,400
Quality Control	2	\$520	2	\$490	4	\$520		\$0	8	\$1,530
Project Management and Administration	2	\$520	8	\$1,960		\$0	8	\$760	18	\$3,240
Pre-Design Meeting with FAA		\$0	4	\$980	4	\$520	4	\$380	12	\$1,880
Prepare Specifications		\$0	8	\$1,960	16	\$2,080	16	\$1,520	40	\$5,560
Prepare Engineer's Report		\$0	4	\$980	12	\$1,560	16	\$1,520	32	\$4,060
Bidding Documents		\$0	4	\$980	8	\$1,040	8	\$760	20	\$2,780
Sub-Total Design	6	\$1,560	45	\$11,025	78	\$10,140	64	\$6,080	193	\$28,805
Bidding Services										
Meeting Prep and Pre Bid Meeting		\$0	8	\$1,960		\$0	4	\$380	12	\$2,340
Prepare Addenda		\$0	4	\$980		\$0	4	\$380	8	\$1,360
Evaluation of Bids and Recommendation of Award		\$0	4	\$980		\$0	4	\$380	8	\$1,360
Sub-Total Bidding Services	0	\$0	16	\$3,920	0	\$0	12	\$1,140	28	\$5,060
Construction Phase Services										
Attend Pre-Construction Meeting		\$0	4	\$980	4	\$520		\$0	8	\$1,500
Attend Construction Meeting/Site Visits (8 visit)		\$0	16	\$3,920	32	\$4,160		\$0	48	\$8,080
Review Contractor's Submittals		\$0		\$0	4	\$520	6	\$570	10	\$1,090
Respond to RFIs		\$0	4	\$980	8	\$1,040		\$0	12	\$2,020
Evaluate Monthly Pay Apps		\$0		\$0	4	\$520	8	\$760	12	\$1,280
Project Management and Administration	2	\$520	8	\$1,960		\$0		\$0	10	\$2,480
Prepare/Manage Change Orders	2	\$520	4	\$980	8	\$1,040	4	\$380	18	\$2,920
Sub-Total Construction Phase Services	4	\$1,040	36	\$8,820	60	\$7,800	18	\$1,710	118	\$19,370
Project Closeout Services										
FAA Closeout		\$0	6	\$1,470	8	\$1,040	8	\$760	22	\$3,270
Water Management, FDEP and USCOE Closeout		\$0	4	\$980		\$0	4	\$380	8	\$1,360
Site Visit and Prepare Punch List		\$0	6	\$1,470		\$0	2	\$190	8	\$1,660
Site Visit and Final Acceptance		\$0	6	\$1,470	4	\$520	2	\$190	12	\$2,180
Prepare Record Drawings		\$0		\$0	2	\$260		\$0	2	\$260
Sub-Total Project Closeout Services	0	\$0	22	\$5,390	14	\$1,820	16	\$1,520	52	\$8,730
TOTAL ALL LABOR	10	2,600	119	29,155	152	19,760	110	10,450	391	61,965

Direct Expenses:

Travel and Reproduction

Kimley-Horn - Plan Production - Exhibit B

Hyatt - Design Surveys - Exhibit B1

ESA - Environmental Permitting - Exhibit D

Maser - Geotechnical

	\$1,000
EGS Lump Sum:	\$62,965
Lump Sum:	\$17,277
Lump Sum:	\$5,905
Hourly NTE:	45180
Allowance:	\$10,000
Total Fee:	\$141,327