

EXHIBIT "E"
Work Authorization

HIDALGO COUNTY
Professional Engineering Services
Contract # C-15-046-03-03
Work Authorization Form

WORK AUTHORIZATION NO. 1

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of Article I. of the Agreement made by and between **HIDALGO COUNTY**, action herein by and through the **Commissioner's Court**, hereinafter called the "**Owner**," and, **L & G Consulting Engineers, Inc. d/b/a L & G Engineering**, professional engineers of Mercedes, Texas, hereinafter called "**Engineer**".

PART 1. SCOPE OF WORK

The purpose of this Work Authorization is for the **Engineer** to provide:
Engineering services for Feasibility Study for the Hidalgo County Pct. 2 Regional Hike & Bike Project.

The scope of services to be provided by the **Owner** is identified in **EXHIBIT "A" – Scope of Services to be provided by the Owner** attached hereto.

The scope of services to be provided by the **Engineer** is identified in **EXHIBIT "B" – Scope of Services to be provided by the Engineer** attached hereto.

PART 2. ESTIMATED COST

The estimated cost for services under this Work Authorization is **\$75,588.32**. This amount is based upon the costs outlined in the Estimated **Cost Proposal** attached hereto as **EXHIBIT "D" Fee Schedule**.

PART 3. PAYMENT

Compensation and payment to the **Engineer** for the services established under this Work Authorization shall be made in accordance with **Article 6** of the Agreement.

PART 4. FUNDING

This Work Authorization No. 1 shall be funded through funding source:

Account No. _____

Requisition Number 272632

PART 5. PERIOD OF SERVICE

This Work Authorization shall become effective on the date of final acceptance of the parties hereto, and terminate upon completion of scopes of the work authorization.

PART 6. RESPONSIBILITIES AND OBLIGATIONS

This Authorization does not waive the parties' responsibilities and obligations provided under the **Agreement**.

EXHIBIT "E"

Work Authorization

PART 7. ACKNOWLEDGEMENT AND CONFIRMATION

Acknowledgement and confirmation by Hidalgo County Precinct No. 2, Commissioner Eduardo Cantu as to content and detail of this **Work Authorization No. 1**.

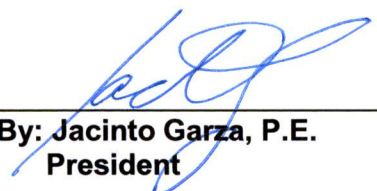
**HIDALGO COUNTY
COMMISSIONER PRECINCT NO. 2**

BY: 

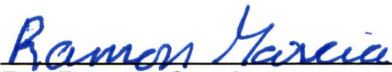
PART 8. ACCEPTANCE AND APPROVAL

This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on _____ as indicated below.

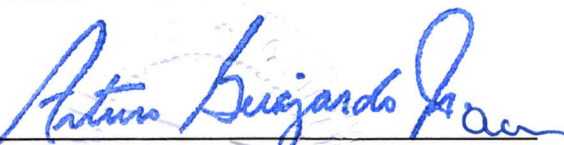
**THE ENGINEER:
L&G ENGINEERING**



By: Jacinto Garza, P.E.
President

**THE OWNER:
HIDALGO COUNTY**


By: Ramon Garcia
County Judge

ATTEST:


By: Arturo Guajardo, Jr., County Clerk

Approved by Commissioners' Court
on 3-3-15 

LIST OF ATTACHMENTS

- Exhibit A – Services to be Provided by the Owner
- Exhibit B – Services to be Provided by the Engineer
- Exhibit C – Work Schedule
- Exhibit D – Fee Schedule

EXHIBIT “A”
Services to be Provided by the Owner

The following provides an outline of the services to be provided by the **Owner** in the development of the Feasibility Study of the proposed Regional Hike & Bike Trail located within the Cities of Pharr, San Juan & McAllen and within the limits of South San Antonio Avenue to South 2nd Street in Hidalgo County hereinafter denoted as the **Project**.

GENERAL:

The **Owner** will provide to the **Engineer** the following:

- 1) Provide the authorization to proceed with services through coordination with the project consulting and design Engineer.
- 2) Payment for work performed by the **Engineer** and accepted by the **Owner** in accordance with Article 3 of the Agreement.
- 3) Assistance to the **Engineer**, as necessary, to obtain the required data and information from other local, regional, State and Federal agencies the **Engineer** cannot easily obtain.
- 4) Provide any available relevant data the **Owner** may have on file concerning the **Project**.
- 5) Provide timely review and decisions in response to the **Engineer’s** request for information and/or required submittals and deliverables, in order for the **Engineer** to maintain the agreed upon work schedule prepared in accordance with Exhibit “C” attached to this Work Authorization.
- 6) Attend and participate in progress meetings as required and as coordinated and conducted by **Engineer**.

EXHIBIT “B”
Services to be Provided by the Engineer

PROJECT INFO:

- **Project Name:** Regional Hike & Bike Trail Feasibility Study
- **Project Limits:** From South San Antonio Ave. to South 2nd St.

GENERAL SCOPE OF WORK:

The work to be performed by the **Engineer** under this Work Authorization shall consist of providing Engineering Services required for a Feasibility Study of the proposed Regional Hike & Bike Trail located within the Cities of Pharr, San Juan & McAllen and within the limits of South San Antonio Avenue to South 2nd Street in Hidalgo County hereinafter denoted as the **Project**.

The **Engineer** will furnish all equipment, materials, supplies, and incidentals as needed to perform the services required by this Work Authorization, except as otherwise specified in Exhibit A, “Services to be Provided by the **Owner**”.

Specific activities to be performed by the **Engineer**, as generally outlined in the Contract, include the following:

SECTION 2 – FEASIBILITY STUDIES
(Function Code 102)

Services
Provided By:
ENGINEER COUNTY

- | | | |
|------------|-----------|---|
| <u>YES</u> | <u>NO</u> | Preliminary Design Values The Engineer will work with the Owner to establish basic design concepts, project controls and general scope of project. |
| <u>YES</u> | <u>NO</u> | Uncontrolled Mapping (w/Contours & GIS Info) The Engineer will investigate various routes and coordinate with the Owner on establishing the best-fit alignment and geometry. |
| <u>YES</u> | <u>NO</u> | Preliminary Location Design Layout The Engineer will complete a finalized layout for the Project upon completion of route studies and all other tasks noted in this Work Authorization. The layout will include final alignment, crossing locations, proposed locations of potential parking access areas, and typical sections. |
| <u>YES</u> | <u>NO</u> | Preliminary ROW Requirements The Engineer will research and identify affected property owners on the Project alignment utilizing the latest appraisal district file information from |

*Hidalgo County Pct. 2 – WA#1
Regional Hike & Bike Trail Feasibility Study*

Hidalgo County Appraisal District and information from Carson Maps. The **Engineer** will document any easements affecting parcels.

- | | | |
|------------|-----------|---|
| <u>YES</u> | <u>NO</u> | <p>Preliminary Cost Estimates</p> <p>The Engineer will calculate preliminary construction cost estimates for the finalized locations and geometry of the Project. The cost estimates will be developed for two (2) paving scenarios of asphalt pavement option and concrete option.</p> |
| <u>YES</u> | <u>NO</u> | <p>Preliminary Environmental Analysis (for fatal flaws)</p> <p>The Engineer will perform “Preliminary Environmental Constraint Mapping to determine if any fatal flaws exist along the proposed alignment.</p> |
| <u>YES</u> | <u>NO</u> | <p>Preparation of Project Fact Sheet (Est. Local Cost vs. Total Project Cost)</p> |
| <u>YES</u> | <u>NO</u> | <p>Evaluation of Crossings at Major Roadways & Coordination w/ TxDOT</p> <p>The Engineer will coordinate with the Owner to establish design options for crossings at major roadways. The crossings will be part of the Design Visualization task of this Work Authorization. Coordination with TxDOT on crossing types/locations is also part of this task.</p> |
| <u>YES</u> | <u>NO</u> | <p>Design Visualization</p> <p>The Engineer will develop various design visualizations for the project including exhibits, preliminary layouts, 3-dimensional models & renderings and 3-dimensional videos. The design visualizations will be utilized for all other tasks of this Work Authorization.</p> |
| <u>YES</u> | <u>NO</u> | <p>Production of Funding Application</p> <p>The Engineer will coordinate with and assist the Owner in preparation of the Hidalgo County MPO TAC Application for 2015 TAPA funding. The Engineer will also assist in the development of all necessary attachments to the application.</p> |
| <u>YES</u> | <u>NO</u> | <p>Outreach with Affected Municipalities</p> <p>The Engineer will coordinate with the Owner to plan meetings with cities and counties for support of the Project. In meetings, the Engineer will assist in the presentation of project data and visualization. This task may also include informal correspondence (phone, fax, email, etc.)</p> |

*Hidalgo County Pct. 2 – WA#1
Regional Hike & Bike Trail Feasibility Study*

YES NO Meetings, Coordination & Support for Project Development

The **Engineer** shall provide coordination services and shall assist in meetings and workshops with Hidalgo County, Hidalgo County Drainage District No. 1 and Hidalgo County Irrigation Districts. The **Engineer** shall serve as representative for the **Owner** in coordination items. The **Engineer** shall coordinate with the **Owner's** staff on all **Project** related items.

EXHIBIT "C"
PROJECT SCHEDULE

| TASK AND DESCRIPTION | 2015 | | | | | | | | | | | |
|--|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
| Feasibility Study | | | | | | | | | | | | |
| Route Studies, Geometrics, Project Exhibits, Cost Estimates | | | | | | | | | | | | |
| Design Visualization (Exhibits, Layouts, 3-D Models & Videos, etc.) | | | | | | | | | | | | |
| Coordination w/ Affected Parties (Pet #2, HCDD #1, HCID #2, TxDOT, Cities, County, etc.) | | | | | | | | | | | | |
| Final Regional Hike & Bike Layout | | | | | | | | | | | | |
| HCMPO TAP Funding Application (w/ All Coordination & Attachments) | | | | | | | | | | | | |

**EXHIBIT D
FEE PROPOSAL**

**Regional Hike and Bike Trail
HIDALGO COUNTY PRECINCT #2**

| TASK | MANHOURS | | | | | | | | | | L&G TOTAL HOURS | |
|---|------------------------|--------------------|---------------------|-------------------------------|--------------------|------------------|--|--|--|--|-----------------|---------------------|
| | Senior Project Manager | Senior Engineer | Project Engineer | Senior Engineering Technician | ROW Administrator | Admin / Clerical | | | | | | |
| WA #1 - Regional Hike & Bike Trail Feasibility Study & TAP Application | | | | | | | | | | | | |
| 1 Preliminary Design Values | 4 | | 8 | 8 | | | | | | | | 20 |
| 2 Uncontrolled Mapping (w/Contours & GIS Info) | 16 | | 32 | 52 | | | | | | | | 100 |
| 3 Preliminary Location Design Layout | 8 | 4 | 32 | 24 | | | | | | | | 68 |
| 4 Preliminary ROW Requirements | | | 8 | 12 | 20 | 4 | | | | | | 44 |
| 5 Preliminary Cost Estimates | 12 | 8 | 24 | 4 | | 4 | | | | | | 52 |
| 6 Preliminary Environmental Analysis (for fatal flaws) | 4 | | 10 | | 2 | | | | | | | 16 |
| 7 Preparation of Project Fact Sheet (Est. Local Cost vs. Total Project Cost) | 4 | 2 | 10 | | | | | | | | | 16 |
| 8 Evaluation of Crossings at Major Roadways & Coordination w/ TxDOT | 8 | 10 | 20 | | | | | | | | | 38 |
| 9 Design Visualization | | | 12 | 30 | | | | | | | | 42 |
| 10 Production of Funding Application | 6 | 10 | 16 | 4 | | 2 | | | | | | 38 |
| 11 Outreach with Affected Municipalities | 12 | | 8 | | | | | | | | | 20 |
| 12 Meetings & Coordination & Support for Project Development Activities | 22 | 10 | 28 | 4 | | 6 | | | | | | 70 |
| Subtotal Hours | 96 | 44 | 208 | 138 | 22 | 16 | | | | | | 524 |
| Hourly Base Rate | \$ 70.00 | \$ 58.00 | \$ 43.00 | \$ 30.00 | \$ 34.00 | \$ 20.00 | | | | | | |
| FY 15 Contract Hourly Rate w/ OH Mult. (178.12%) & Fixed Fee (12.00%) | \$ 218.04 | \$ 180.66 | \$ 133.94 | \$ 93.45 | \$ 105.91 | \$ 62.30 | | | | | | |
| Total Labor Costs | \$ 20,931.84 | \$ 7,949.04 | \$ 27,859.52 | \$ 12,896.10 | \$ 2,330.02 | \$ 996.80 | | | | | | \$ 75,588.32 |

L&G Direct Expenses

30 Ft. Long by 3.5 Ft. Tall Hike & Bike Overall Exhibit (105 sq. ft.) @ \$5.00/sq. ft. - 5 Total Prints

Subtotal (Direct Expenses)

Cost Proposal
\$ 2,625.00
\$ 2,625.00

Grand Total \$ 75,588.32