

EXHIBIT “E”

HIDALGO COUNTY Professional Engineering Services Agreement # C-14-308-09-09 Work Authorization Form

WORK AUTHORIZATION NO. 1

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of Article 7 of the Agreement made by and between **HIDALGO COUNTY**, action herein by and through the **Commissioner’s Court**, hereinafter called the “**Owner**,” and, **LeFevre Engineering & Management Consulting, Inc.**, professional engineers of **McAllen, Texas**, hereinafter called “**Engineer**”.

PART 1. SCOPE OF WORK

The purpose of this Work Authorization is for the **Engineer** to provide Surveying, Plans, Specifications, Construction Phase Engineering and Construction Inspection for Spanish Palms Subdivision Street & Drainage Improvements of Hidalgo County Precinct **No.1** as identified in Attachment “A”.

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 **\$ 57,365.00**. This amount is based upon the costs outlined in the Estimated **Cost Proposal** attached hereto as **EXHIBIT “D”**.

PART 3. PAYMENT

Compensation and payment to the **Engineer** for the services established under this Work Authorization shall be made in accordance with **Articles 5, 6, & 7** of the Agreement.

PART 4. FUNDING

This Work Authorization No. **1** shall be funded through funding source:
Account No. 5-1345-431-00-121-194-0-721

Requisition Number 270662 (MUST BE INCLUDED AFTER CC APPROVAL)

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.

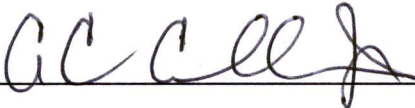
PART 6. RESPONSIBILITIES AND OBLIGATIONS

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

PART 7. ACKNOWLEDGEMENT AND CONFIRMATION

Acknowledgement and confirmation by **Hidalgo County Precinct No. 1** Commissioner **A.C. Cuellar, Jr.** as to content and detail of this **Work Authorization No. 1.**

**HIDALGO COUNTY
COMMISSIONER PRECINCT No. 1**

BY: 

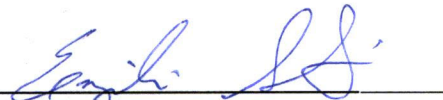
Commissioner A.C. Cuellar, Jr.

PART 8. ACCEPTANCE AND APPROVAL

This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on _____ as indicated below and effective as of ____ day of _____, 20____.

THE ENGINEER:
Le Fevre Engineering & Management Consulting, Inc.

THE OWNER:
HIDALGO COUNTY

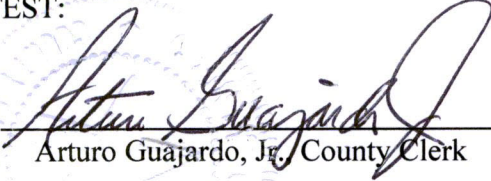


By: Emigdio Salinas, P.E., Project Eng.



By: Ramon Garcia, County Judge

ATTEST:

BY: 
Arturo Guajardo, Jr., County Clerk

APPROVED BY
COMMISSIONERS' COURT
ON: _____

LIST OF ATTACHMENTS

- ATTACHMENT "A" - Service to be provided by the Owner
- ATTACHMENT "B" - Services to be provided by the Engineer
- ATTACHMENT "C" - Work Schedule
- ATTACHMENT "D" - Estimated Cost Proposal
- D-1 Fee Breakdown

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 Project.

The OWNER will provide to the ENGINEER the following:

- (1) Authorization to the ENGINEER to begin work in accordance with Section 3 of this Agreement.
- (2) Payment for work performed by the ENGINEER and accepted by the OWNER in accordance with Section 6 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 that 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" of this Agreement.
- (6) Attend and participate in progress meetings as required and as coordinated and conducted by the ENGINEER.
- (7) Assist the ENGINEER in the preparation of the project mailing list; provide representation, a site and stenographer for all public meetings; additionally:

Public Meetings

- (a) Approve agenda and all exhibits prior to public meeting.
 - (b) Approve date and location of the meeting.
 - (c) Review/approve Public Meeting Report.
- (8) Attend the Preliminary Concept Conference coordinated and conducted by the ENGINEER and more particularly identified in Attachment "B" of the

Agreement.

- (9) Assist the ENGINEER as required in the coordination with the USACE and the Federal Emergency Management Agency (FEMA) and any other coordinating agency or entity.
- (10) Review and approve the Project design criteria.
- (11) Review and approve change orders as required and prepared by the ENGINEER.

EXHIBIT B

-Scope of Services to be provided by the Engineer

PREPARED BY:

**LeFEVRE ENGINEERING & MANAGEMENT CONSULTING, LLC.
(LEMC)**

The County of Hidalgo, Texas, proposes to reconstruct Spanish Palm Subdivision Street: Spanish Palms Drive (Approximately 2,350 LF) and improve the drainage.

Contract Amount: \$57,365.00

Task 1 – Survey

Necessary field information will be developed by field surveys. Record plans will be issued as a guide for the survey work and for the analysis of design alternatives.

Task 2 – Project Orientation and Startup

LEMC proposes an initial project orientation meeting be scheduled so that both the County and the engineer may have a clear understanding of the design and construction process, parameters to be used and the final product desired.

Task 3 – Design

LEMC will assure that improvements are designed and incorporated in the plans are adequate for the area, Hidalgo County requirements.

Task 4 – Preliminary Plans and Estimates

LEMC will provide County staff a set of plans and estimates for accordance, evaluation and coordination.

Task 5 – Final Plans and Specifications

Final plans, specifications and estimates will be prepared during this task. The output of this task will be the documents necessary for bidding and constructing the project.

Task 6 – Bidding and Award

A pre-bid meeting will be scheduled if necessary in order to brief potential bidders and suppliers on the project. Necessary clarifications or addendum will be issued. LEMC will attend the bid opening and assist as the County desires.

Task 7 – Construction

LEMC will periodically observe ongoing work, identify survey control for the contractor (Construction Staking not included) and assist the County with certifying periodic payment

requests. Upon completion by the contractor, a final inspection will be scheduled with the contractor and County staff. The outcome of these final inspections will be a Certificate of completion or a punch list of items for the contractor to complete, prior to issuance of a Certificate of Completion.

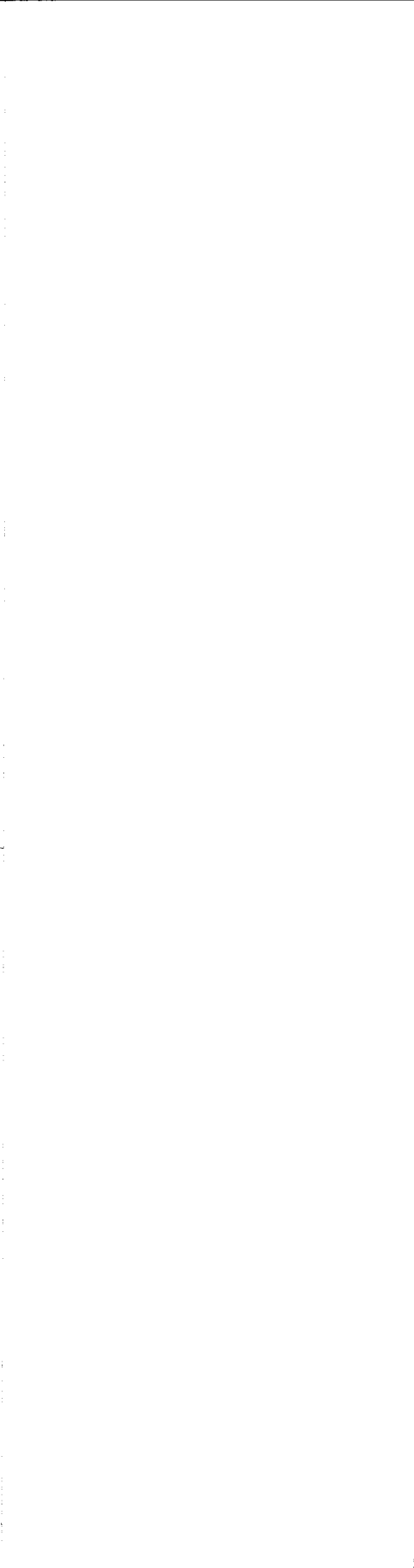
Exhibit "C"
Project Schedule
Work Authorization No. 1
Spanish Palms Subdivision Street and Drainage Improvements
PREPARED BY:
LeFEVRE ENGINEERING & MANAGEMENT CONSULTING, LLC.
(LEMC)

The County of Hidalgo, Texas, proposes to reconstruct Spanish Palms Subdivision Street: Spanish Palms Drive (Approximately 2,350 LF of Street) and improve the drainage.

Attached Schedule:

COUNTY OF HIDALGO - PRECINCT NO. 1
 SPANISH PALMS ROAD RECONSTRUCTION PROJECT
 EXHIBIT C - Work Schedule

ID	Task Name	Duration	Start	March	May	July	September
1	Project Start Up	7 days	Mon 3/2/15	■			
2	Define Scope of Work and Tasks	7 days	Mon 3/2/15	■			
3							
4	Survey	15 days	Wed 3/11/15	■			
5	Design Topography	15 days	Wed 3/11/15	■			
6							
7	Preliminary Plans (30% Submittal)	30 days	Wed 4/1/15	■			
8	Develop Alternatives	10 days	Wed 4/1/15	■			
9	Design Calculations	15 days	Wed 4/1/15	■			
10	Preliminary Plans and Specifications	30 days	Wed 4/1/15	■			
11							
12	60-90% Submittal of Plans and Specifications	30 days	Wed 5/13/15	■			
13	Plans and Specifications	30 days	Wed 5/13/15	■			
14							
15	100% Submittal	15 days	Wed 6/24/15	■			
16	Final Plans & Specifications	15 days	Wed 6/24/15	■			



Date: Mon 1/26/15

Task Split

Progress Milestone

Summary Project Summary

External Tasks External MileTask

Split

LEFEVRE

Exhibit "D"
 Cost Proposal
 Work Authorization No. 1
 Spanish Palms Subdivision Street and Drainage Improvements
 PREPARED BY:
LeFEVRE ENGINEERING & MANAGEMENT CONSULTING, LLC.
(LEMC)

The County of Hidalgo, Texas, proposes to reconstruct Spanish Palms Subdivision Street: Spanish Palms Drive (Approximately 2,350 LF of Street) and improve the drainage.

Contract Amount: \$57,365.00

Engineering Cost Proposal and Fee Breakdown

Original Scope:

Basic Engineering	\$31,465.00
Topographic Survey	\$9,250.00
Construction Phase	
Engineering	\$7,400.00
Inspection	\$9,250.00
Total	\$57,365.00

*Construction Material Testing,
 Geotechnical Engineering to be
 provided by others

HOURLY FEES

PRINCIPAL	\$200.00/HOUR
PROJECT ENGINEER	\$175.00/HOUR
PROJECT MANAGER	\$130.00/HOUR
DESIGNER/TECHNICIAN	\$ 85.00/HOUR
ADMINISTRATIVE	\$ 65.00/HOUR
INSPECTOR/PROJECT REPRESENTATIVE	\$ 75.00/HOUR

*Reimbursables, Materials, and Travel are incorporated into hourly fees for individuals and will not be requested for this project.

LeFevre Engineering & Management Consulting, LLC
Hidalgo County Precinct No. 1 - Spanish Palm Subdivision
Engineer's Opinion of Probable Construction Cost

Item #	Description	Bid Qty.		Bid Unit Price	Total
General Project					
1	Installation and maintenance of barricades, signs and traffic handling as per contractor Traffic Control Plan.	1	LS	\$ 10,000.00	\$10,000.00
2	Installation and maintenance of Erosion Control Measures; according to the plans and specifications; complete in place	1	LS	\$ 10,000.00	\$10,000.00
TOTAL GENERAL PROJECT					\$20,000.00
Pavement Improvements					
1	Remove existing concrete 18" LayDown Curb and dispose offsite	5280	LF	\$5.00	\$26,400.00
2	Place New 1-1/2" Hot Mix Asphalt Concrete (Type "D") [1-1/2" Compacted thickness], according to the plans and specifications; complete in place.	7135	SY	\$12.00	\$85,620.00
3	Prime Coat (MC-30) (0.2 GAL/SY) according to the plans and specifications; complete in place.	1427	GAL	\$6.00	\$8,562.00
4	8-inch Scarify Existing Caliche Base and Asphalt and stabilize the salvaged material with lime (3%); re-compact salvaged material for flex-base (8-inch compacted thickness) to a width of 28-ft (additional caliche needed to achieve 28-ft width does not require lime stabilization (additional caliche required to be included on this bid item) according to the plans and specifications complete in place	8325	SY	\$8.00	\$66,600.00
5	8-inch Scarify and compact Sub-Grade to a width of 28-ft according to the plans and specifications complete in place	8325	SY	\$2.50	\$20,812.50
6	7-inch Reinforced Concrete Apron (4000 PSI), according to the plans and specification; complete in place.	250	SY	\$70.00	\$17,500.00
7	4-inch Reinforced Concrete Driveway (4000 PSI), according to the plans and specification; complete in place	500	SY	\$45.00	\$22,500.00
8	4-inch Concrete Sidewalk (4000 PSI), according to the plans and specification; complete in place	195	SF	\$5.00	\$975.00
9	Place New 1-1/2" Hot Mix Asphalt Concrete (Type "D") Driveways [1-1/2" Compacted thickness], according to the plans and specifications; complete in place.	470	SY	\$15.00	\$7,050.00
TOTAL Pavement Improvements					\$256,019.50
Drainage Improvements					
1	Earthwork: Grade roadside swales	2380	CY	\$ 7.00	\$16,660.00
2	Connect to Existing Grate Inlet (Grate Inlet by others), according to the plans and specifications; complete in place	2	EA	\$ 2,500.00	\$5,000.00
3	Furnish and Install 18-inch Sloped End Section, according to plans and specifications; complete in place	2	EA	\$ 2,500.00	\$5,000.00
4	18" HDPE Corrugated Pipe (Culverts)	1500	LF	\$ 45.00	\$67,500.00
TOTAL Drainage Improvements					\$94,160.00

Total improvements: \$370,179.50

Engineering (8.5%)	\$31,465.00
Surveying (2.5%)	\$9,250.00
Construction Phase Engineering (2.0%)	\$7,400.00
Inspection (2.5%)	\$9,250.00

Grand Total \$427,544.50



612 Nolana, Suite 520
McAllen, Texas 78504
Tel. 956.687.1EMC
Fax. 956.687.3065

Texas Registered Engineering Firm E-11722

Exhibit D-1 - Fee Breakdown

Hidalgo County Precinct No. 1 - BCAP Spanish Palms Subdivision Street & Drainage Improvements P175

LEMC Professional Engineering Services:

Civil Engineering									
Hourly Rates:									
Principal Engineer	200								
Engineer	175								
Project Manager	130								
CADD Technician	85								
Inspector	75								
Administration	65								

Project Start Up (Task 2)	\$200/Hr Principal Engineer	\$130/Hr Project Manager	\$175/Hr Project Engineer	\$85/Hr CADD Technician	\$65/Hr Clerk	\$75/Hr Inspector
Meeting w/ County Staff		0.5	0.5			
Planning w/ County Staff		0.5	0.5			
Define Scope of Work & Tasks		0.5	0.5			
Total	0	1.5	1.5	0	0	0

Preliminary Plans (Task 4)	\$200/Hr Principal Engineer	\$130/Hr Project Manager	\$175/Hr Project Engineer	\$85/Hr CADD Technician	\$65/Hr Clerk	\$75/Hr Inspector
Develop Feasible Alternatives	0.5	0.5	1			
Develop Preferred Alternative	0.5	0.5	1			
Prepare Environmental Clearance (if any)						
Preliminary Design Calculations	0.5	0.5	2			
Preliminary Plans and General Notes	0.5	0.5	2	24	4	
Preliminary Specifications	0.5	0.5	2	24	4	
Total	2	2.5	8	24	8	0

Design - Civil Task 3	\$200/Hr Principal Engineer	\$130/Hr Project Manager	\$175/Hr Project Engineer	\$85/Hr CADD Technician	\$65/Hr Clerk	\$75/Hr Inspector
Survey Coordination and Evaluation	1	2	2	16	4	
Final Design Calculations	5	2	24			
Final Plan and General Notes	5	4	24	36	4	
Final Specifications	4	4	24		4	
Design	15	12	74	52	12	0

Final Plans and Specifications Task 5	\$200/Hr Principal Engineer	\$130/Hr Project Manager	\$175/Hr Project Engineer	\$85/Hr CADD Technician	\$65/Hr Clerk	\$75/Hr Inspector
Final Plan and General Notes	1	1	4	16	3	
Final Specifications	1	1	4			
Design Inspection	2	2	8	16	2.96153846	0

	Principal Engineer	Project Manager	Project Engineer	CADD Technician	Clerk	Inspector
Pre-Bid Meeting						2
Bid Opening						2
Construction Inspections						118
Pre-Construction Meeting & N.T.P.						1
Bidding and Negotiating Phase Total	0	0	0	0	0	123,333.33

	\$200/Hr Principal Engineer	\$130/Hr Project Manager	\$175/Hr Project Engineer	\$85/Hr CADD Technician	\$65/Hr Clerk	\$75/Hr Inspector
Construction Phase Engineering						
Bidding & Award (Task 6)						
Advertisement	1				1	
Pre-Bid Meeting	1		1		1	
Bid Opening	1		1		1	
Negotiations w/ Contractor			1			
Notice of Award to Contractor			1			
Pre-Construction Meeting & N.T.P.	1	1	1		1	
Total	1	4	5	0	5	0

	\$200/Hr Principal Engineer	\$130/Hr Project Manager	\$175/Hr Project Engineer	\$85/Hr CADD Technician	\$65/Hr Clerk	\$75/Hr Inspector
Construction (Task 7)						
Construction Phase Engineering						
Monthly Project Status Meetings	1	2	8		2	
Construction Inspections	1	1	2		2.5	
Construction Phase Total	3	4	11	0	7	0

	\$200/Hr Principal Engineer	\$130/Hr Project Manager	\$175/Hr Project Engineer	\$85/Hr CADD Technician	\$65/Hr Clerk	\$75/Hr Inspector
As Built (Task 8)						
Record Drawings			2	16		
Closing of the Project					4	
Total	0	0	2	16	4	4.153846154

Total Hours	23	26	109.5	108	39.11538461	123.33333
Amount Per Hour	\$200	\$130	\$175	\$85	\$65	\$75
Grand Total	\$4,600	\$3,380	\$19,163	\$9,180	\$2,542	\$9,250

	\$1500/Day Survey Team	\$90/Hr Project Manager	\$120/Hr Project Engineer	\$65/Hr CADD Technician	\$30/Hr Clerk	N/A Other
Survey						
Field Work - Survey	4					
CADD/Technician				80		
Project Manager Oversight		12				
Final Survey		4				
Sub-Total	\$	6,000	\$	1,440	\$	1,280
Total Amount	\$9,250				\$	530

CONTRACT TOTAL AMOUNT \$57,365.00