WORK AUTHORIZATION NO. 1

HIDALGO COUNTY
Professional Construction
Material Testing Engineer Services

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of Section I.A. of the Agreement made by and between **HIDALGO COUNTY**, acting by and through the **Hidalgo County Urban County Program**, hereinafter called the "**Owner**," and, **Raba-Kistner Consultants, Inc.** professional engineers of **McAllen ,** Texas, hereinafter called "**Engineer**".

PART 1. SCOPE OF WORK
The purpose of this Work Authorization is for the "engineering services" to provide **Construction material testing engineer services for Granjeno 2016 Street Improvements.**

PART 2. ESTIMATED COST
The estimated cost for services under this Work Authorization is **$11,753.78**. This amount is based upon the costs outlined in the Estimated **Cost Proposal** attached hereto as **EXHIBIT "A".**

PART 3. PAYMENT
Compensation and payment to the Engineer for the services established under this Work Authorization shall be made in accordance with Article/Part/Section **4** of the Agreement.

PART 4. FUNDING
WORK AUTHORIZATION NO. **1** shall be funded through funding source:
ACCOUNT NO. **5016-35-0311-5000-3500-UCP-GVG**
PURCHASE ORDER NUMBER: _____ **(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 scope 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 Urban County Program, Diana Serna (Director) as to content and detail of this **Work Authorization No. 1 .**

HIDALGO COUNTY
URBAN COUNTY PROGRAM

BY: _____
DIANA R. SERNA, UCP DIRECTOR

PART 8. ACCEPTANCE AND APPROVAL

This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on July 11, 2017 as indicated below and effective as of **11th day of July, 2017** .

THE ENGINEER:

_____
By: Isidoro Arjona, P.E. PMP, Vice President

THE OWNER:
HIDALGO COUNTY

_____
By: Ramon Garcia, County Judge

ATTEST:

_____
Arturo Guajardo Jr., County Clerk

APPROVED AS TO FORM:
Atlas, Hall & Rodriguez, L.L.P.

By:_____

Exhibit A: Cost Proposal : (Best & Final Offer Letter & Cost Breakdown)

RABA KISTNER
CONSULTANTS

Raba Kistner Consultants, Inc.
800 E. Hackberry
McAllen, TX 78501
www.rkci.com

P 956.682.5332
F 956.682.5487
TBPE Firm F-3257
TBPLS Firm 10193784

Proposal No.: PMD17-064-00
June 23, 2017

Exhibit "A"

Ms. Guadalupe Garcia
Hidalgo Urban County Program
427 E. Duranta Ave, Suite 107
Alamo, Hidalgo County, Texas 78516

RE: Construction Materials Observation and Testing Services
City of Granjeno Street Improvements
El Camino Real and Anzaldua Drive
Granjeno, Hidalgo County, Texas

Dear Mr. Garcia:

RABA KISTNER Consultants, Inc. (RKCI) is pleased to submit this proposal for Construction Materials Observation and Testing Services for the above referenced project.

Our opinion of probable cost of services for this project is:

M 494 (Military Road) Sidewalk Improvements	**$3,924.80.**
El Camino Real Drive	**$6,196.58.**
Anzaldua Drive	**$1,632.40.**
Grand Total	**$11,753.78.**

Our proposed scope of services and estimated item quantities are based upon our interpretation of the project plan provided to us via electronic-mail transmittal by Mr. Carlos Trevino, Graduate Engineer, with Hinojosa Engineering, Inc., the project's consulting engineering firm on Thursday, May 25, 2017, and are without the aid of the general contractor's schedule. The scope and quantity of services provided will be dependent upon the actual services required/requested by you and/or your representatives. Charges will be assessed only for actual services rendered. All services authorized or requested by you and/or your representatives in excess of the quantities of observation and testing services shown herein will be charged at the appropriate unit rate for such services. Charges will be invoiced on a monthly basis and will show a computerized composite total of services rendered for each service category.

This amount should not be considered a maximum but is **RKCI's** estimate of the probable costs associated with implementing the work outlined on Page 4, 5 and 6 of this document. The means/methods, sequencing, and scheduling of the Contractor and its Subcontractors, can significantly impact our estimate of the probable cost

Invoices will be submitted monthly for work in progress in our standard format. Our invoices are due and payable upon receipt at P.O. Box 971037, Dallas, Dallas County, Texas 75397-1037. All parties hereby agree that this contract upon acceptance will be performable in Bexar County, Texas. In the event that the State of Texas legislates a sales tax on professional services, the amount of tax applicable will be added to the appropriate service rate charged by **RKCI.**

We appreciate the opportunity of submitting this proposal and look forward to working with you during the construction of this project. Please return one signed copy of this letter proposal to provide written authorization for our firm to commence work on the services outlined herein. Please complete the attached Project Data Sheet for invoicing and reporting information.

Very truly yours,

RABA KISTNER Consultants, Inc.

Jorge L. Perez
Supervisor, CME

JLP/EA/WP

Attachments: Basic Charges

Accepted By _____
(Signature)

_____
(Typed or Printed Name)

_____
(Title)

Date _____

Copies submitted: Above (1)

CONSTRUCTION MATERIALS TESTING UNIT RATES
FM 494 (MILITARY ROAD) SIDEWALK IMPROVEMENTS

SERVICE	UNIT RATE		QUANTITY	TOTAL
Concrete:				
1. Concrete Compressive Strength Tests	$15.50	each	40	$620.00
2. Technician Time - Concrete Testing	$49.25	hour	24	$1,182.00
3. Air Content of Concrete	$28.75	each	8	$230.00
4. Technician Time - Pick-Up of Specimen(s)	$49.25	hour	16	$788.00
5. Vehicle Travel Charge	$46.75	trip	16	$748.00
Subtotal				**$3,568.00**
Professional Services:				
1. Project Coordination	$110.00	hour	As requested	
2. Geotechnical / Materials Engineer	$165.00	each	As requested	
3. Vehicle Travel Charge	$46.75	trip	As requested	
Subtotal				
Other:				
1. Project Administration(Markup of Invoiced Billing Cycle)	10%			$356.80
Subtotal				**$356.80**
		GRAND TOTAL		**$3,924.80**

CONSTRUCTION MATERIALS TESTING UNIT RATES
EL CAMINO REAL DRIVE

SERVICE	UNIT RATE		QUANTITY	TOTAL
Earthwork:				
1. Moisture-Density Relationship (Proctor)	$230.00	each	3	$690.00
2. Atterberg Limits Determinations (P.I.) (ASTM/AASHTO)	$84.00	each	3	$252.00
3. Sieve Analysis -200	$56.75	each	0	$0.00
4. Sieve Analysis - Flexible Base Material	$56.75	each	1	$56.75
5. Technician Time Sampling	$49.25	hour	6	$295.50
6. Field Density Test	$21.00	each	4	$84.00
7. Technician Time - Density Testing	$49.25	hour	10	$492.50
8. Vehicle Travel Charge	$46.75	trip	7	$327.25
Subtotal				**$2,198.00**
Asphalt:				
1. Asphaltic Concrete Laydown Observation	$59.00	hour	15	$885.00
2. Field Densities Test	$16.50	each	15	$247.50
3. Extraction, Gradation, Bitumen Content and Laboratory Density of Asphalt Concrete	$283.75	each	3	$851.25
4. Maximum Theoretical Max. Specific Gravity of Asphalt	$104.00	each	3	$312.00
5. Asphaltic Concrete Coring:				
a.) Two Men	$101.25	hour	4	$405.00
b.) Coring Rig	$113.00	day	1	$113.00
c.) Generator	$95.50	day	1	$95.50
d.) Bit Wear - Quartz Aggregate (River Gravel)	$6.00	in.-in.	36	$216.00
6. Core Density	$20.50	each	6	$123.00
7. Vehicle Travel Charge	$46.75	trip	4	$187.00
Subtotal				**$3,435.25**
Professional Services:				
1. Project Coordination	$110.00	hour	As requested	
2. Geotechnical / Materials Engineer	$165.00	each	As requested	
3. Vehicle Travel Charge	$46.75	trip	As requested	
Subtotal				
Other:				
1. Project Administration(Markup of Invoiced Billing Cycle)	10%			$563.33
Subtotal				**$563.33**
		GRAND TOTAL		**$6,196.58**

CONSTRUCTION MATERIALS TESTING UNIT RATES
ANZALDUA DRIVE

SERVICE	UNIT RATE		QUANTITY	TOTAL
Asphalt:				
1. Asphaltic Concrete Laydown Observation	$59.00	hour	5	$295.00
2. Field Densities Test	$16.50	each	5	$82.50
3. Extraction, Gradation, Bitumen Content and Laboratory Density of Asphalt Concrete	$283.75	each	1	$283.75
4. Maximum Theoretical Max. Specific Gravity of Asphalt	$104.00	each	1	$104.00
5. Asphaltic Concrete Coring:				
a.) Two Men	$101.25	hour	3	$303.75
b.) Coring Rig	$113.00	day	1	$113.00
c.) Generator	$95.50	day	1	$95.50
d.) Bit Wear - Quartz Aggregate (River Gravel)	$6.00	in.-in.	12	$72.00
6. Core Density	$20.50	each	2	$41.00
7. Vehicle Travel Charge	$46.75	trip	2	$93.50
Subtotal				**$1,484.00**
Professional Services:				
1. Project Coordination	$110.00	hour	As requested	
2. Geotechnical / Materials Engineer	$165.00	each	As requested	
3. Vehicle Travel Charge	$46.75	trip	As requested	
Subtotal				
Other:				
1. Project Administration(Markup of Invoiced Billing Cycle)	10%			$148.40
Subtotal				**$148.40**
		GRAND TOTAL		**$1,632.40**

Fees for Consulting & Coordination Services	**Unit Fees**
Principal Engineer	$ 190.00 to 320.00/hr
Managing Engineer	123.00 to 210.00/hr
Staff Engineer	97.00 to 170.00/hr
Laboratory Manager	77.00 to 150.00/hr
Construction Services Manager	77.00 to 150.00/hr
Outside Professional Services & Reimbursable	Cost +15%
Additional Insured	225.00/ea
Report Preparation and Administration	49.00 to 84.00/hr