

FILED
 AT 11:00 O'CLOCK A M
 FEB 28 2018
 ARTURO GUAJARDO, JR. COUNTY CLERK
 HIDALGO COUNTY, TEXAS
 BY _____ DEPUTY

EXHIBIT D
Work Authorization Form

HIDALGO COUNTY
Professional Engineering Services
"Geo-Technical and Construction Material Testing Services"
Agreement # C-CAP-18-052-02-27

WORK AUTHORIZATION NO. 1

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of Section I.A. of the Agreement made by and between **HIDALGO COUNTY**, action herein by and through the **Commissioner's Court**, hereinafter called the "**Owner**," and, EarthCo, LLC professional engineers of Harlingen Texas, hereinafter called "**Engineer**".

PART 1. SCOPE OF WORK

The purpose of this Work Authorization is for the "engineering services" to provide Geotechnical Engineering and Construction Materials Testing.

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 \$25,175.05. 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 Article/Part/Section 4 of the Agreement.

PART 4. FUNDING

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

Account No. 8-1312-431-00-121-894-0-339

Account No. 8-1312-431-00-121-108-0-339

Account No. 8-1312-431-00-121-790-0-339

Account No. 8-1312-431-00-121-839-0-339

Requisition Number 367455 (**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 Precinct No.1, Commissioner, David Fuentes, as to content and detail of this **Work Authorization No. 1** .

**HIDALGO COUNTY
COMMISSIONER PRECINCT No. 1:**

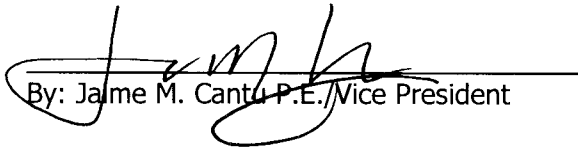
BY: 
Hon. David Fuentes

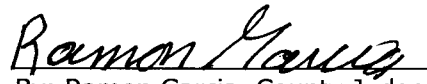
PART 8. ACCEPTANCE AND APPROVAL

This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on Febr. 27, 2018 as indicated below and effective as of 27th day of February, 2018.

**THE ENGINEER:
EARTHCO., LLC**

**THE OWNER:
HIDALGO COUNTY**

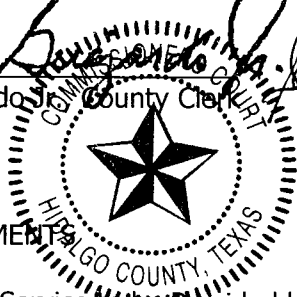

By: Jaime M. Cantu P.E./Vice President


By: Ramon Garcia, County Judge

ATTEST:


By: Arturo Guajardo Jr. County Clerk





LIST OF ATTACHMENTS

- Attachment "A" – Service to be Provided by the Owner
- Attachment "B" – Services to be Provided by Engineer
- Attachment "C" – Work Schedule
- Attachment "D" – Cost Proposal

ATTACHMENT A

-Scope of Services to be provided by the County

The following provides an outline of the services to be provided by the Owner in the development of Projects (as defined and more particularly identified in Exhibit "A" attached to this Agreement).

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 this 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 projects.
- 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 "A" attached to this Agreement.
- 6) Attend and participate in progress meetings as required and as coordinated and conducted by Engineer.
- 7) Provide the authorization to proceed with services on project by project basis through consulting design and construction Engineer.

ATTACHMENT B

-Scope of Services to be provided by the Engineer/Laboratory

1. GEOTECHNICAL ENGINEERING: SUBSURFACE INVESTIGATION AT MARTIN SUBDIVISION (TOWER STREET), BARBOSA LOPEZ #2 SUBDIVISION (ESPERANZA STREET), VAL VERDE NORTH SUBDIVISION (N. SUNSET DRIVE), AND BIG JOHN SUBDIVISION (STEWART DRIVE).
2. CONSTRUCTION MATERIALS TESTING: FIELD INSPECTION, SOIL SAMPLING AND TESTING, FIELD DENSITY TESTING, ASPHALT DENSITY AND QUALITY CONTROL SERVICES FOR STREET IMPROVEMENTS AT MARTIN SUBDIVISION (TOWER STREET), BARBOSA LOPES #2 SUBDIVISION (ESPERANZA STREET), VAL VERDE NORTH SUBDIVISION (N. SUNSET DRIVE), AND BIG JOHN SUBDIVISION (STEWART DRIVE).

ATTACHMENT C
WORK SCHEDULE

I. **Barbosa Lopez #2 Subdivision**

GEOTECHNICAL ENGINEERING:

WEEK 1: FIELD CORING AND FIELD SAMPLING OF SUBGRADE

WEEK 2: LAB TESTING AND REPORT WRITING:

CONSTRUCTION MATERIALS TESTING:

WEEK 1: COLLECT SAMPLES OF SUBGRADE MATERIALS AND PERFORM LIME DETERMINATION AND NECESSARY LABORATORY TESTING (LAB TESTING: ATTERBERG LIMITS, -200 WASH, STANDARD PROCTOR, ETC.)

WEEK 2: COLLECT LIME TREATED SUBGRADE AND PERFORM LABORATORY TESTING;

WEEK 3: PERFORM FIELD DENSITY TESTS ON LIME TREATED SUBGRADE;

WEEK 4: PERFORM FIELD DENSITY TESTS OF LIME TREATED SUBGRADE;

WEEK 5: COLLECT SAMPLES OF BASE MATERIALS AND PERFORM LABORATORY TESTING;

WEEK 6: PERFORM FIELD DENSITY TESTS ON BASE MATERIALS;

WEEK 7: PERFORM FIELD DENSITY TESTS OF BASE MATERIALS;

WEEK 8: COLLECT ASPHALT MATERIAL SAMPLES AND PERFORM LABORATORY TESTS;

WEEK 9: PERFORM ROLLING PATTERN AND FIELD DENSITY TESTS;

WEEK 10: PERFORM ROLLING PATTERN AND FIELD DENSITY TESTS;

WEEK 11: PERFORM ASPHALT CORES AND LABORATORY TESTING ;

ATTACHMENT C
WORK SCHEDULE (con't.)

II. Martin Subdivision

GEOTECHNICAL ENGINEERING:

WEEK 1: FIELD CORING AND FIELD SAMPLING OF SUBGRADE

WEEK 2: LAB TESTING AND REPORT WRITING:

CONSTRUCTION MATERIALS TESTING:

WEEK 1: COLLECT SAMPLES OF SUBGRADE MATERIALS AND PERFORM LIME DETERMINATION AND NECESSARY LABORATORY TESTING (LAB TESTING: ATTERBERG LIMITS, -200 WASH, STANDARD PROCTOR, ETC.)

WEEK 2: COLLECT LIME TREATED SUBGRADE AND PERFORM LABORATORY TESTING;

WEEK 3: PERFORM FIELD DENSITY TESTS ON LIME TREATED SUBGRADE;

WEEK 4: PERFORM FIELD DENSITY TESTS OF LIME TREATED SUBGRADE;

WEEK 5: COLLECT SAMPLES OF BASE MATERIALS AND PERFORM LABORATORY TESTING;

WEEK 6: PERFORM FIELD DENSITY TESTS ON BASE MATERIALS;

WEEK 7: PERFORM FIELD DENSITY TESTS OF BASE MATERIALS;

WEEK 8: COLLECT ASPHALT MATERIAL SAMPLES AND PERFORM LABORATORY TESTS;

WEEK 9: PERFORM ROLLING PATTERN AND FIELD DENSITY TESTS;

WEEK 10: PERFORM ROLLING PATTERN AND FIELD DENSITY TESTS;

WEEK 11: PERFORM ASPHALT CORES AND LABORATORY TESTING ;

ATTACHMENT C
WORK SCHEDULE (con't.)

III. Val Verde North Subdivision

GEOTECHNICAL ENGINEERING:

WEEK 1: FIELD CORING AND FIELD SAMPLING OF SUBGRADE

WEEK 2: LAB TESTING AND REPORT WRITING:

CONSTRUCTION MATERIALS TESTING:

WEEK 1: COLLECT SAMPLES OF SUBGRADE MATERIALS AND PERFORM LIME DETERMINATION AND NECESSARY LABORATORY TESTING (LAB TESTING: ATTERBERG LIMITS, -200 WASH, STANDARD PROCTOR, ETC.)

WEEK 2: COLLECT LIME TREATED SUBGRADE AND PERFORM LABORATORY TESTING;

WEEK 3: PERFORM FIELD DENSITY TESTS ON LIME TREATED SUBGRADE;

WEEK 4: PERFORM FIELD DENSITY TESTS OF LIME TREATED SUBGRADE;

WEEK 5: COLLECT SAMPLES OF BASE MATERIALS AND PERFORM LABORATORY TESTING;

WEEK 6: PERFORM FIELD DENSITY TESTS ON BASE MATERIALS;

WEEK 7: PERFORM FIELD DENSITY TESTS OF BASE MATERIALS;

WEEK 8: COLLECT ASPHALT MATERIAL SAMPLES AND PERFORM LABORATORY TESTS;

WEEK 9: PERFORM ROLLING PATTERN AND FIELD DENSITY TESTS;

WEEK 10: PERFORM ROLLING PATTERN AND FIELD DENSITY TESTS;

WEEK 11: PERFORM ASPHALT CORES AND LABORATORY TESTING ;

ATTACHMENT C
WORK SCHEDULE (con't.)

IV. Big John Subdivision

GEOTECHNICAL ENGINEERING:

WEEK 1: FIELD CORING AND FIELD SAMPLING OF SUBGRADE

WEEK 2: LAB TESTING AND REPORT WRITING:

CONSTRUCTION MATERIALS TESTING:

ATTACHMENT C

WORK SCHEDULE (con't.)

WEEK 1: COLLECT SAMPLES OF SUBGRADE MATERIALS AND PERFORM LIME DETERMINATION AND NECESSARY LABORATORY TESTING (LAB TESTING: ATTERBERG LIMITS, -200 WASH, STANDARD PROCTOR, ETC.)

WEEK 2: COLLECT LIME TREATED SUBGRADE AND PERFORM LABORATORY TESTING;

WEEK 3: PERFORM FIELD DENSITY TESTS ON LIME TREATED SUBGRADE;

WEEK 4: PERFORM FIELD DENSITY TESTS OF LIME TREATED SUBGRADE;

WEEK 5: COLLECT SAMPLES OF BASE MATERIALS AND PERFORM LABORATORY TESTING;

WEEK 6: PERFORM FIELD DENSITY TESTS ON BASE MATERIALS;

WEEK 7: PERFORM FIELD DENSITY TESTS OF BASE MATERIALS;

WEEK 8: COLLECT ASPHALT MATERIAL SAMPLES AND PERFORM LABORATORY TESTS;

WEEK 9: PERFORM ROLLING PATTERN AND FIELD DENSITY TESTS;

WEEK 10: PERFORM ROLLING PATTERN AND FIELD DENSITY TESTS;

WEEK 11: PERFORM ASPHALT CORES AND LABORATORY TESTING ;

ATTACHMENT D
 COST PROPOSAL
 BARBOSA LOPEZ #2

2/21/2018

Border Colonia Access Program (BCAP) Phase III Precinct No. 1
 Barbosa Lopez # 2 - Hidalgo County
 Contract No. C-CAP-18-052-02-27

	Unit	Price	Amount	Extension
Geotechnical Investigation				
Item No.	Description			
1	Soil Borings and identification of Cross section soil Lab work and Report	Lump Sum	\$4,465.00	1 \$4,463.00
Geotechnical Investigation Total				\$4,463.00

	Unit	Price	Amount	Extension
Subgrade				
Item No.	Description			
1	Lime Determination	each	\$195.00	1 \$195.00
2	Sample Pick-up / Trip Charge	each	\$70.00	1 \$70.00
3	Standard Proctor	each	\$155.00	1 \$155.00
4	Atterberg Limits	each	\$65.00	1 \$65.00
5	Sample Pick-up / Trip Charge	each	\$70.00	1 \$70.00
6	Nuclear Density Test on Roadway	each	\$55.00	12 \$660.00
7	Trip Charge	each	\$70.00	4 \$280.00
8	Report Review	hour	\$75.00	6 \$450.00
Sub-Total				\$1,945.00

Base				
Item No.	Description			
1	Standard Proctor	each	\$155.00	1 \$155.00
2	Atterberg Limits	each	\$65.00	1 \$65.00
3	Gradation	each	\$65.00	1 \$65.00
4	Sample Pick-up / Trip Charge	each	\$70.00	1 \$70.00
5	Nuclear Density Test on Roadway	each	\$55.00	12 \$660.00
6	Thickness Check	each	\$15.00	12 \$180.00
7	Trip Charge	each	\$70.00	4 \$280.00
8	Report Review	hour	\$75.00	6 \$450.00
Sub-Total				\$1,925.00

Asphalt				
Item No.	Description			
1	Extraction Gradation	each	\$195.00	1 \$195.00
2	Max Theo (rice method)	each	\$60.00	1 \$60.00
3	Sample Pick-up / Trip Charge	each	\$70.00	1 \$70.00
4	Establish Rolling Pattern	hour	\$55.00	7 \$385.00
5	Trip Charge	each	\$70.00	2 \$140.00
6	Asphalt Cores	each	\$65.00	9 \$585.00
7	Specific Gravity of Cores	each	\$55.00	9 \$495.00
8	Sample Pick-up / Trip Charge	each	\$60.00	2 \$120.00
9	Report Review	hour	\$75.00	8 \$600.00
Sub-Total				\$2,650.00
Construction Materials Testing Total				\$6,520.00

Project Total \$10,983.00

ATTACHMENT D
 COST PROPOSAL
 VAL VERDE NORTH SUBDIVISION

2/21/2018

Border Colonia Access Program (BCAP) Phase III Precinct No. 1
Val Verde North Subdivision - Hidalgo County
Contract No. C-CAP-18-052-02-27

	Unit	Price	Amount	Extension	
Geotechnical Investigation					
Item No.	Description				
1	Soil Borings and identification of Cross section soil Lab work and Report	Lump Sum	\$2,500.00	1	\$2,510.00
Geotechnical Investigation Total				\$2,510.00	

	Unit	Price	Amount	Extension	
Subgrade					
Item No.	Description				
1	Lime Determination	each	\$195.00	1	\$195.00
2	Sample Pick-up / Trip Charge	each	\$70.00	1	\$70.00
3	Standard Proctor	each	\$155.00	1	\$155.00
4	Atterberg Limits	each	\$65.00	1	\$65.00
5	Sample Pick-up / Trip Charge	each	\$70.00	1	\$70.00
6	Nuclear Density Test on Roadway	each	\$55.00	7	\$385.00
7	Trip Charge	each	\$70.00	1	\$70.00
8	Report Review	hour	\$75.00	2	\$150.00
Sub-Total				\$1,160.00	

Base					
Item No.	Description				
1	Standard Proctor	each	\$155.00	1	\$155.00
2	Atterberg Limits	each	\$65.00	1	\$65.00
3	Gradation	each	\$65.00	1	\$65.00
4	Sample Pick-up / Trip Charge	each	\$70.00	1	\$70.00
5	Nuclear Density Test on Roadway	each	\$55.00	7	\$385.00
6	Thickness Check	each	\$15.00	7	\$105.00
7	Trip Charge	each	\$70.00	1	\$70.00
8	Report Review	hour	\$75.00	2	\$150.00
Sub-Total				\$1,065.00	

Asphalt					
Item No.	Description				
1	Extraction Gradation	each	\$195.00	2	\$390.00
2	Max Theo (rice method)	each	\$60.00	1	\$60.00
3	Sample Pick-up / Trip Charge	each	\$70.00	1	\$70.00
4	Establish Rolling Pattern	hour	\$55.00	4	\$220.00
5	Trip Charge	each	\$70.00	1	\$70.00
6	Asphalt Cores	each	\$65.00	3	\$195.00
7	Specific Gravity of Cores	each	\$55.00	3	\$165.00
8	Sample Pick-up / Trip Charge	each	\$60.00	1	\$60.00
9	Report Review	hour	\$75.00	3	\$225.00
Sub-Total				\$1,455.00	
Construction Materials Testing Total				\$3,680.00	

Project Total **\$6,190.00**

ATTACHMENT D
 COST PROPOSAL
 BIG JOHN SUBDIVISION

2/21/2018

Border Colonia Access Program (BCAP) Phase III Precinct No. 1
 Big John Subdivision - Hidalgo County
 Contract No. C-CAP-18-052-02-27

		Unit	Price	Amount	Extension
Geotechnical Investigation					
Item No.	Description				
1	Soil Borings and identification of Cross section soil lab work and Report	Lump Sum	\$2,000.00	1	\$1,970.30
Geotechnical Investigation Total					\$1,970.30

		Unit	Price	Amount	Extension
Subgrade					
Item No.	Description				
1	Lime Determination	each	\$195.00	1	\$195.00
2	Sample Pick-up / Trip Charge	each	\$70.00	1	\$70.00
3	Standard Proctor	each	\$155.00	1	\$155.00
4	Atterberg Limits	each	\$65.00	1	\$65.00
5	Sample Pick-up / Trip Charge	each	\$70.00	1	\$70.00
6	Nuclear Density Test on Roadway	each	\$55.00	4	\$220.00
7	Trip Charge	each	\$70.00	1	\$70.00
8	Report Review	hour	\$75.00	2	\$150.00
				Sub-Total	\$995.00

Base					
Item No.	Description				
1	Standard Proctor	each	\$155.00	1	\$155.00
2	Atterberg Limits	each	\$65.00	1	\$65.00
3	Gradation	each	\$65.00	1	\$65.00
4	Sample Pick-up / Trip Charge	each	\$70.00	1	\$70.00
5	Nuclear Density Test on Roadway	each	\$55.00	4	\$220.00
6	Thickness Check	each	\$15.00	4	\$60.00
7	Trip Charge	each	\$70.00	1	\$70.00
8	Report Review	hour	\$75.00	2	\$150.00
				Sub-Total	\$855.00

Asphalt					
Item No.	Description				
1	Extraction Gradation	each	\$175.00	1	\$175.00
2	Max Theo (rice method)	each	\$60.00	1	\$60.00
3	Sample Pick-up / Trip Charge	each	\$70.00	1	\$70.00
4	Establish Rolling Pattern	hour	\$55.00	2	\$110.00
5	Trip Charge	each	\$70.00	1	\$70.00
6	Asphalt Cores	each	\$65.00	3	\$195.00
7	Specific Gravity of Cores	each	\$55.00	3	\$165.00
8	Sample Pick-up / Trip Charge	each	\$60.00	1	\$60.00
9	Report Review	hour	\$75.00	1	\$75.00
				Sub-Total	\$980.00
Construction Materials Testing Total					\$2,830.00

Project Total **\$4,800.30**