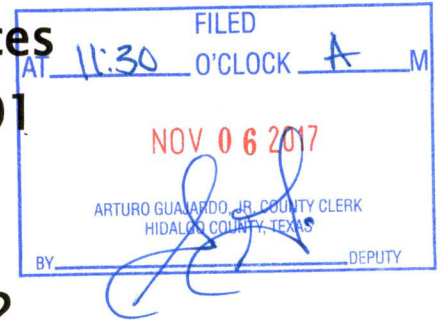


HIDALGO COUNTY
Professional Engineering Services
Contract # C-15-255A-09-01
Work Authorization Form
WORK AUTHORIZATION NO. 2



THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of Article 1 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 required for the preparation for Traffic Speed Zone Study for various roadways (as identified in the attached Location Map) in Precinct No. 1.

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

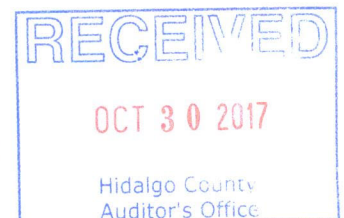
The estimated cost for services under this Work Authorization is **\$55,411.62**. This amount is based upon the costs outlined in the **Estimated Cost Proposal** attached hereto as *EXHIBIT "D-1" - Estimated Man-hour Breakdown*.

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. 2 shall be funded through funding source:
Account No. 7-1200-431-00-121-005-0-334
Requisition Number 361041 (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, as identified on *EXHIBIT "C" - Work Schedule*.

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 the content and detail of this Work Authorization No. 2.

HIDALGO COUNTY
COMMISSIONER PRECINCT NO. 1

BY: 

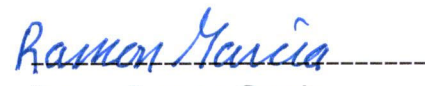
PART 8. ACCEPTANCE AND APPROVAL

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

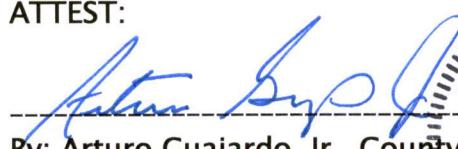
THE ENGINEER:
L&G ENGINEERING


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: 10/31/17 

LIST OF EXHIBITS

- Location Map
- Exhibit A - Services to be provided by Owner
- Exhibit B - Services to be provided by Engineer
- Exhibit C - Work Schedule
- Exhibit D-1 - Estimated Man-hour Breakdown



EXHIBIT "A"
Services to be provided by the County

1. The County will issue work authorization to initiate all required services and designate the authorized representative of the coordination of each work authorization.
2. The County will provide the Engineer with on-going guidance, timely reviews, and decisions necessary to complete services required by the work authorization in order to permit the Engineer to maintain an agreed upon project schedule.
3. The County will provide Accident Data for all locations for consideration of the Study.
4. The County will process all acceptable requests for payment in a timely manner.



EXHIBIT "B"

SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER FOR SPEED ZONE STUDIES IN PRECINCT 1, HIDALGO COUNTY, TEXAS

Project Understanding

This project covers the conduct of speed studies on various corridors in Precinct 1, Hidalgo County, Texas, in order to establish speed limit zones. Ergonomic Transportation Solutions, Inc. (ETSI) will conduct field investigations, travel time runs and collect spot speed data at multiple locations along several corridors, as requested by L&G Engineering (L&G). The study will follow the guidelines listed in TxDOT's Manual titled "*Procedures for Establishing Speed Zones*". ETSI's work will conform to the requirements of Hidalgo County and the Texas MUTCD latest edition.

Speed Studies will be conducted at the locations identified below:

SPEED ZONE LIMITS

1) MILE 15:

- ZONE 1: MILE 6 W TO CANAL (TRAVEL TIME RUNS ONLY)
- ZONE 2: CANAL TO FM 1015 (TRAVEL TIME RUNS + SPOT SPEEDS)

2) MILE 15.5:

- ZONE 1: MILE 6 W TO FM 88 (TRAVEL TIME RUNS ONLY)
- ZONE 2: FM 88 TO FM 1015 (TRAVEL TIME RUNS + SPOT SPEEDS)

3) MILE 12:

- ZONE 1: MILE 6 W TO FM 88 (TRAVEL TIME RUNS ONLY)
- ZONE 2: FM 88 TO FM 1015 (TRAVEL TIME RUNS + SPOT SPEEDS)

4) MILE 12.5:

- ZONE 1: MILE 6 W TO FM 88 (TRAVEL TIME RUNS + SPOT SPEEDS)
- ZONE 2: FM 88 TO FM 1015 (TRAVEL TIME RUNS + SPOT SPEEDS)

5) MILE 11:

- ZONE 1: MILE 6 W TO FM 88 (TRAVEL TIME RUNS + SPOT SPEEDS)
- ZONE 2: FM 88 TO FM 1015 (TRAVEL TIME RUNS + SPOT SPEEDS)



6) LOTT RD:

- ZONE 1: FM 493 TO MIDWAY (TRAVEL TIME RUNS + SPOT SPEEDS)

7) MILE 10:

- ZONE 1: MILE 6 W TO FM 88 (TRAVEL TIME RUNS + SPOT SPEEDS)
- ZONE 2: FM 88 TO MARIO YBARRA ELEMENTARY (TRAVEL TIME RUNS + SPOT SPEEDS)
- ZONE 3: MARIO YBARRA ELEMENTARY SCHOOL ZONE (TRAVEL TIME RUNS + SPOT SPEEDS)
- ZONE 4: MARIO YBARRA ELEMENTARY TO FM 1015 (TRAVEL TIME RUNS + SPOT SPEEDS)

8) MILE 16:

- ZONE 1: MILE 6 W TO FM 88 (TRAVEL TIME RUNS ONLY)
- ZONE 2: FM 88 TO 0.3 MILES EAST OF FM 88 (TRAVEL TIME RUNS ONLY)
- ZONE 3: 0.3 MILES EAST OF FM 88 TO FM 1015 (TRAVEL TIME RUNS + SPOT SPEEDS)

9) MILE 13:

- ZONE 1: FM 88 TO MILE 4 WEST RD (TRAVEL TIME RUNS ONLY)
- ZONE 2: MILE 6 WEST RD TO FM 88 (TRAVEL TIME RUNS + SPOT SPEEDS)

10) STITES RD:

- ZONE 1: FM 493 TO MIDWAY (TRAVEL TIME RUNS + SPOT SPEEDS)

11) WALKER RD:

- ZONE 1: FM 493 TO MIDWAY (TRAVEL TIME RUNS ONLY)

12) VICTORIA RD:

- ZONE 1: MILE 10 NORTH RD TO US 83 NORTH FRONTAGE RD (TRAVEL TIME RUNS + SPOT SPEEDS)

13) NITTLER RD:

- ZONE 1: FM 493 TO FM 88 (TRAVEL TIME RUNS + SPOT SPEEDS)



14) MILE 13:

- ZONE 1: FM 493 TO MILE 6 WEST RD (TRAVEL TIME RUNS + SPOT SPEEDS)

15) MILE 12.5 (ROOSEVELT RD):

- ZONE 1: FM 493 TO ELENA AVE (M.A. MUNOZ ELEMENTARY SCHOOL ZONE) (TRAVEL TIME RUNS + SPOT SPEEDS)
- ZONE 2: ELENA AVE TO FM 1423 (VAL VERDE RD) (TRAVEL TIME RUNS + SPOT SPEEDS)

16) MILE 2 WEST ROAD:

- ZONE 1: MILE 8 NORTH RD TO MILE 11 NORTH RD (TRAVEL TIME RUNS + SPOT SPEEDS)
- ZONE 2: MILE 11 NORTH RD TO MILE 13 NORTH RD (TRAVEL TIME RUNS + SPOT SPEEDS)
- ZONE 3: MILE 13 NORTH RD TO SH 107 (TRAVEL TIME RUNS + SPOT SPEEDS)

17) MILE 6 NORTH:

- ZONE 1: FM 491 (TEXAS AVE) TO RIO RICO RD (TRAVEL TIME RUNS ONLY)
- ZONE 2: MERCEDES HIGH SCHOOL SPEED ZONE (TRAVEL TIME RUNS ONLY)
- ZONE 3: RIO RICO RD TO MILE 2.5 EAST (TRAVEL TIME RUNS ONLY)

18) GOOLIE RD:

- ZONE 1: MILE 9 TO 2,800' NORTH (TRAVEL TIME RUNS ONLY)
- ZONE 2: 2,800' NORTH OF MILE 9 TO SIOUX RD (TRAVEL TIME RUNS ONLY)
- ZONE 3: SIOUX RD TO MINNESOTA RD (TRAVEL TIME RUNS + SPOT SPEEDS)

19) SKY SOLDIER RD:

- ZONE 1: SANTIAGO GALVAN TO US 281 (TRAVEL TIME RUNS ONLY)
- ZONE 2: US 281 TO MALONE (TRAVEL TIME RUNS + SPOT SPEEDS)
- ZONE 3: MALONE TO BAKER (TRAVEL TIME RUNS ONLY)

ETSI will provide the following services:

- 1) Conduct Field investigations:



- Collect spot speed data during off peak hours of a typical weekday and under favorable weather conditions
- Record at least 125 vehicles in each direction or
- Record vehicles in both directions for a maximum 2 hour period even if 125 vehicles have not been timed
- Take photos for each direction of traffic where spot speed data are collected
- Identify sight distance restrictions if any
- Identify posted speed limits, if existing
- Record existing development in the vicinity of the intersection
- Observe existing traffic patterns

2) Assess Spot Speed data:

- Assess completeness of collected data

3) Spot Speed Analysis

- Conduct spot speed analysis
- Determine 85th percentile speeds
- Assess accident records

4) Location Exhibit:

- Prepare location exhibit in approximate scale to present the geometric condition of the roadway

5) Spot Speed Study Report:

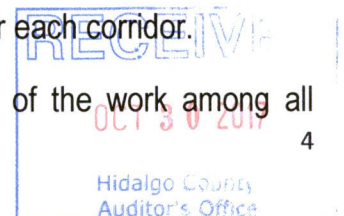
- Prepare a report that presents all data collected, analyses work, exhibits, photographs and recommendations

SERVICES TO BE PROVIDED BY L&G ENGINEERING

If available, L&G shall furnish ETSI hard copies and electronic versions of the record drawings for the roadway section under study.

L&G will contact Hidalgo County Sheriff's office to obtain accident records for each corridor.

L&G shall also provide coordination and communication for the progress of the work among all



parties involved.

PROJECT SCHEDULE

All project requirements can be completed within a time frame of three months. It is assumed that all required accident reports will become available within three weeks of the notice to proceed.



EXHIBIT D-1
ESTIMATED MAN-HOUR BREAKDOWN

Work Authorization No. 2 ~ Speed Zone Study
Precinct No. 1

	MANHOURS						TOTAL LINE ITEM COST
	Senior Project Manager	Senior Engineer	Senior Engineer Tech	Admin / Clerical	TOTAL HOURS	Sub-Contract Amounts /COST	
	203.70	168.78	93.12	58.20			
CONTRACT RATE							
WORK AUTHORIZATION NO. 2 - (18 Roadways: 36 Zones)							
SPEED ZONE STUDY - Precinct No. 1							
1 Speed Spot Study Analysis - SUB (see Exhibit D-1 Page 2 of 2)						\$ 44,179.02	
2 Reports and Recommendation Review	14	40			54		\$ 9,603.00
3 Meetings with Pct, County Sheriff, Constable, Maintenance Employees, etc....(est. 4 @ 2hr ea)	8				8		\$ 1,629.60
SUB-TOTAL	22	40	0	0	62	\$ 44,179.02	\$ 11,232.60

Sub-Total Manhours Fee with Subconsultant Fee: \$ 55,411.62

*** TOTAL PROJECT FEE: \$ 55,411.62**

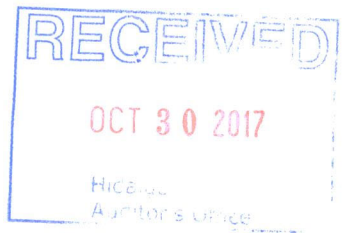


EXHIBIT “D-1”

SPEED ZONE STUDIES IN PRECINCT 1, HIDALGO COUNTY, TEXAS

BASIS OF ESTIMATE

- CONDUCT FIELD INVESTIGATIONS AND TRAVEL TIME RUNS:
 - (39 ZONES)(3 HRS/EA)(TECHNICIAN)=117 HRS
 - (39 ZONES)(1 HR/EA)(TRAFFIC ENGINEER)=39 HRS

- CONDUCT SPOT SPEED STUDIES & DETERMINE 85th PERCENTILE SPEEDS
 - (25 ZONES)(5 HRS/EA)(TECHNICIAN)=125 HRS
 - (25 ZONES)(2 HR/EA)(TRAFFIC ENGINEER)=50 HRS

- SPEED AND FACTORS ASSESSMENT AND ANALYSES
 - (39 ZONES)(2 HRS/EA)(TRAFFIC ENGINEER)=78 HRS
 - (39 ZONES)(1 HR/EA)(PROJECT MANAGER)=39 HRS

- REPORT AND RECOMMENDATIONS
 - (19 CORRIDORS)(1 EXHIBIT/CORRIDOR)(2 HR/EA)(TECHNICIAN)=38 HRS
 - (REPORT WRITING)(32HRS)(TRAFFIC ENGINEER)=32 HRS
 - (QA/QC)(8HRS)(PROJECT MANAGER)=8 HRS

SUMMARY OF LABOR HOURS & FEES:

TECHNICIAN = 280 HRS @ \$68.63/HR = \$19,216.40

TRAFFIC ENGINEER = 199 HRS @ \$94.89/HR = \$18,883.11

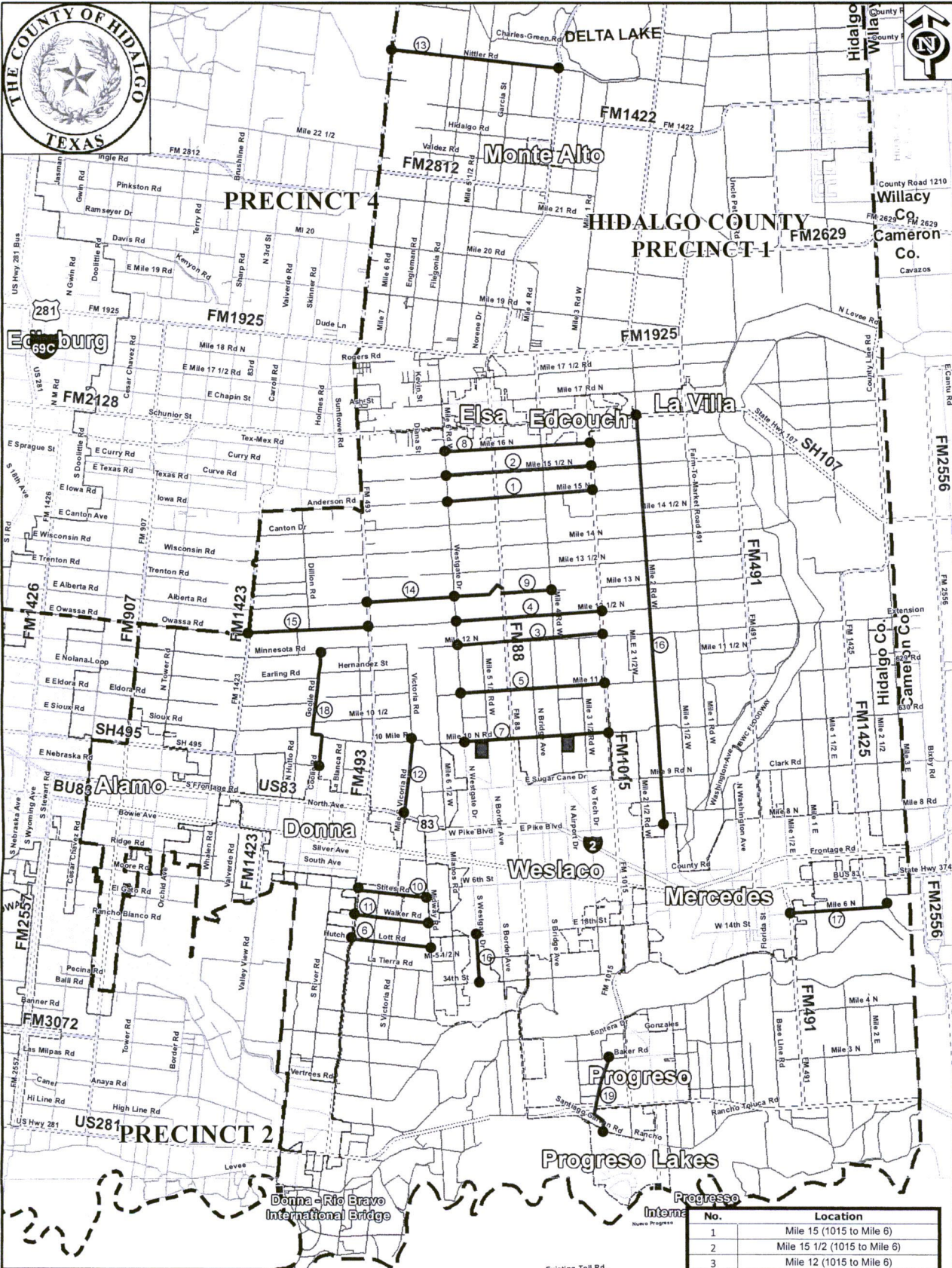
PROJECT MANAGER = 47 HRS @ \$125.33/HR = \$5,890.51

EXPENSES:

- TRAVEL/MILEAGE = 350 MILES @ \$0.54/MI = \$189.00

TOTAL FEE: \$44,179.02



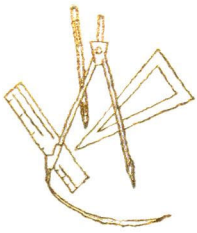


**PRECINCT # 1
SPEED LIMITS CHANGE
REQUEST**

- Legend**
- COUNTY PROJECTS
 - FM ROADS
 - PRECINCT BOUNDARY
 - CITY LIMITS
 - SCHOOL

**REPUBLIC OF
MEXICO**

No.	Location
1	Mile 15 (1015 to Mile 6)
2	Mile 15 1/2 (1015 to Mile 6)
3	Mile 12 (1015 to Mile 6)
4	Mile 12 1/2 (1015 to Mile 6)
5	Mile 11 (1015 to Mile 6)
6	Lott Rd. (493 to Midway)
7	Mile 10 (1015 to Mile 6)
8	Mile 16 (1015 to Mile 6)
9	Mile 13 (Mile 4 to Mile 6)
10	Stites Rd (493 to Midway)
11	Walker Rd. (493 to Midway)
12	N. Victoria Rd. (Frontage to Mile 10)
13	Nittler Rd (493 to 88)
14	Mile 13 (Mile 6 W. to FM 493)
15	Mile 12 1/2 (FM 493 to Valverde Rd.)
16	Mile 2 (Mile 8 to SH 107)
17	Mile 6 N. (Mile 1/2 E. to Mile 2 1/2 E.)
18	Goolie Rd. (Mile 9 N. to Minnesota Rd.)
19	Sky Soldier Rd. (Santiago Galvan Rd. to Baker Rd.)



October 26, 2017

The Honorable David L. Fuentes
Commissioner, Hidalgo County Pct. No. 1
1902 Joe Stephens Ave. Ste 1
Weslaco, Texas 78599

**RE: On Call Services – Traffic Studies County Wide C-15-255A-09-01 - Work Authorization No. 2
Speed Zone Study – Various Roadways**

Dear Commissioner Fuentes:

As discussed, attached in duplicate for your review and approval is Work Authorization No. 2 to the On Call Services – Traffic Studies County Wide Agreement between L&G Engineering and Hidalgo County.

Work Auth. No. 2 is in the amount of \$ 55,411.62 to provide Traffic Speed Zone Study for various roadways within Precinct No. 1. Attached you will find the following:

- 1.) Two (2) signed originals of Work Authorization No. 2 with the following attachments:
 - Project Location Map
 - Exhibit A “Services to be provided by the Owner”
 - Exhibit B “ Services to be provided by the Engineer”
 - Exhibit C “Work Schedule”
 - Exhibit D-1 “Estimated Man-hour Breakdown”

We would also like to advise you that we will be using the Sub-Consultant listed below for this Work Authorization.

Traffic Signal Warrant Study:

Mr. Harry Simeonidis, P.E.

ETSI

5300 Hollister Road, Ste. 220

Houston, Texas 77040

Phone (713) 956-9601

Should you have any questions regarding this submittal, do not hesitate to call me at (956) 585-1909.

Sincerely,

Carlos Peralez, P.E.

Project Manager

Attachments



APPROVED

AI-62326

Purchasing Department 21. C. 3.

CC - REGULAR

Prct. 1

Meeting Date: 10/31/2017

Submitted For: Marty Salazar, PURCHASING DEPT.

Submitted By: Yvette Salinas, PURCHASING DEPT.

Department: PURCHASING DEPT.

Information

CAPTION

A. Requesting approval of Work Authorization No. 2 to C-15-255A-09-01 between Hidalgo County and L & G Engineering Consulting Engineers to provide Traffic Speed Zone Study for various roadways within Pct. 1 in the amount of \$55,411.62.

B. Pursuant to current contract with L&G Engineering, a request for approval by engineer to permit the subcontracting with Ergonomic Transportation Solutions, Inc. in connection with Contract Work Authorization #2.

BACKGROUND

Fiscal Impact

CALENDAR YEAR: 2017

ACCT. #: 7-1200-431-00-121-005-0-334

FUNDS AVAILABLE Y/N?:

MATCHING FUNDS Y/N?:

BUDGETARY IMPACT:

Funds pending approval AI-62338.

Attachments

[ai back up 62326](#)

Form Review

Inbox	Reviewed By	Date
Purchasing - Internal	Marty Salazar	10/27/2017 03:24 PM
Budget & Management	Veronica Ortiz	10/27/2017 03:26 PM
Final Approval	Monica Salinas	10/27/2017 04:54 PM
Form Started By: Yvette Salinas		Started On: 10/27/2017 01:09 PM
Final Approval Date: 10/27/2017		

