

COUNTY *of* **HIDALGO**



A.C. CUELLAR, JR.

**County Commissioner, Pct. 1
1902 Joe Stephens Ave.
Weslaco, TX 78596
(956) 968-8733**

Memorandum

To: MARTHA SALAZAR – COUNTY PURCHASING AGENT

From: RAUL LOZANO – CHIEF ADMINISTRATOR PRECINCT I

Date: 07/15/10

Re: WORK AUTHORIZATION...

Martha,

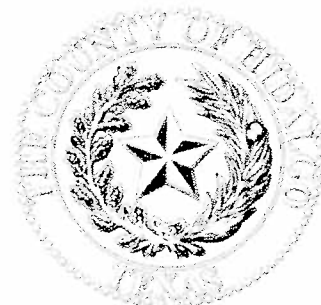
Please facilitate our request to process work authorization for FM 493 South Road Project.

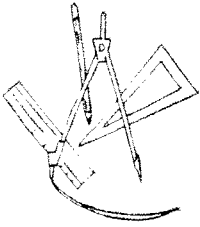
The funding source will be on our new debt issuance. The account number will be provided for by the Department of Budget & Management.

Also, this work authorization request is to be placed on the agenda for the Commissioners' Court meeting on Tuesday, July 20, 2010.

If you have any further questions, please feel free to contact me at 973-7823.

Best Regards.





June 28, 2010

Hon. A.C. Cuellar, Jr
Commissioner, Hidalgo County Pct. No. 1
1902 Joe Stephens
Weslaco, Texas 78596

Attn: Raul Lozano

**Re: FM 493 South (Work Authorization No. 2)
Limits: from US 281 (Military Highway) North 6.65 Miles to Business 83)**

Dear Commissioner Cuellar:

As discussed and as per Contract No. C-08-417-12-09, previously approved on December 9, 2008, L&G Engineering is completing Work Authorization No. 1 of the above referenced project and limits and is now in the process of initiating Work Authorization No. 2. Your office has informed us to split Work Authorization No. 2 to exclude the Right-of-Way Acquisition.

Based on the Public Meeting and approved TxDOT schematic we are attached a revised Exhibit D - Fee Schedule with the new estimates for the Project. Originally we had estimated \$150,000.00 for Surveying and Work Authorization No. 2 clarifies the new estimates for Survey and Right-of-Way Mapping.

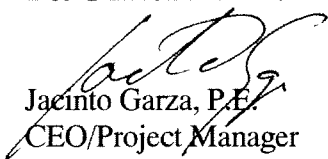
Attached for your review and execution in duplicate form are two original, Work Authorizations No. 2 with attachments, for L&G Engineering (L&G) to perform engineering management and surveying services for the FM 493 South project. This Work Authorization is to provide a Right-of-Way Map and Additional Surveying Services in support of TxDOT's Construction of the FM 493 South from US 281 (Military Highway) North 6.65 Miles to Business 83. Please reference the attached Exhibit "D" - Cost Proposal for funding distributions.

Attached you will find the following:

- ❖ Two signed original Work Authorizations No. 2 with attachments
 - Exhibit "B" - Services to be Provided by the Engineer
 - Exhibit "C" - Work Schedule
 - Exhibit "D" - Fee Schedule

We look forward to working with you and your staff on this project. Should you have any questions regarding this submittal, do not hesitate to call me at (956) 565-9813.

Sincerely,
L&G ENGINEERING


Jacinto Garza, P.E.
CEO/Project Manager

Attachments

HIDALGO COUNTY
Professional Engineering Services
Contract # C-08-417-12-09
Work Authorization Form

WORK AUTHORIZATION NO. 2

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 **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 Management Services required to complete the Right-of-Way Map and Additional Surveying Services in support of TxDOT's Construction of the FM 493 from US 281 (Military Highway) North 6.65 Miles to Business 83.**

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 **\$451,665.50**. 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 5, 6, 7 of the Agreement.

PART 4. FUNDING

This Work Authorization No. 2 shall be funded through funding source:

Account No. _ _ _ _ _

Requisition 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 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. 2.

**HIDALGO COUNTY
COMMISSIONER PRECINCT NO. 1**

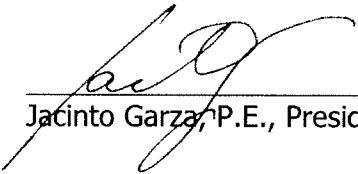
A.C. Cuellar, Jr., County Commissioner

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 _____, 2010.

THE ENGINEER:
L&G ENGINEERING

THE OWNER:
HIDALGO COUNTY



Jacinto Garza, P.E., President

Rene Ramirez, Hidalgo County Judge

ATTEST:

Arturo Guajardo, Jr., County Clerk

LIST OF EXHIBITS

- EXHIBIT "A" - Service to be provided by the Owner - OMITTED
- EXHIBIT "B" - Services to be provided by the Engineer
- EXHIBIT "C" - Work Schedule
- EXHIBIT "D" - Cost Proposal

GENERAL INSTRUCTIONS

ENGINEER shall mean L&G Engineering.

SURVEYOR shall mean J.E. Saenz & Associates, Inc.

STATE shall mean Texas Department of Transportation.

COUNTY shall mean Hidalgo County.

PROJECT DESCRIPTION

The services designated herein as "Services Provided by the Engineer" shall include the performance of all engineering services for the following described facility:

County/City: Hidalgo County

Control: 0863-01-047, etc.

Project/Description: Design Surveys, Right-of-Way Mapping for FM 493 South

Length: 6.5 Miles

Highway: FM 493

Limits: US 281 (Military Highway) North 6.65 Miles to Business 83)

Existing Facility

Project Classification

(Place an "X" in only one Project Classification)

- Surface Treatment
- Overlay
- Rehabilitation Existing Road (Scarify & Reshape)
- Convert Non-Freeway to Freeway
- Widen Freeway
- Widen Non-Freeway
- New Location Toll Freeway
- New Location Non-Freeway
- Interchange (New or Reconstruct)
- Bridge Widening or Rehabilitation
- Bridge Replacement
- Upgrade to Standards - Freeway
- Upgrade to Standards - Non-Freeway
- Miscellaneous Studies (Use Function Code 110 For All Tasks)

NOTES

RIGHT-OF-WAY DATA
(Function Code 130)

Services

Provided By:

Engineer County

NOTE: No work involving right-of-way (ROW) data is to be performed until the state has given the engineer written approval of the final location of the proposed ROW lines.

YES

1. Ownership Data in a .dgn file
 - a. Ownership Information shall be determined (Preliminary Title Data) for a distance of 3/4 miles before and after each existing or proposed overpass.
 - b. Compensable utility ownership rights on TxDOT ROW shall be researched and provided.
 - c. For each drainage outfall property preliminary ROW identification will be shown.
 - d. For each irrigation structure pipe.
 - e. Mailing list of owners on both side of the expressway for the project limits.

YES

2. Parcel plats & Right-of-Way Map
 - a. A ROW map, parcel plats and field notes shall be prepared and furnished.
 - b. ROW map and field notes shall be revised as required due to changes in Highway Ownership Changes or Revised Parcel Numbering. All plats and field notes must be signed and sealed by a Registered Professional Land Surveyor (RPLS).
 - c. ROW map must depict all improvements affecting ROW.

YES

3. Utility Adjustments
 - a. Highway Design Data shall be furnished by the Engineer to the County and TxDOT for joint coordination with Utility Companies of the needed Utility Adjustments.

YES

4. Field Notes
 - a. Field notes and plats, signed and sealed by a Registered Professional Land Surveyor, for all parcels on the ROW Map (metric and english units)
 - b. Control of Access Descriptions for all parcels on Designated Controlled Access Highways.
 - c. Computation Sheets for Survey Closure and Area for Each Parcel.
 - d. Ground surveys and preparation of parcel maps, legal descriptions, and right of way maps.

YES

5. Survey and Stake Right-of-Way

YES

6. Records as Required by the County and TxDOT
 - a. Records used to establish ownership

Services
Provided By:
Engineer County

YES

7. General Guidelines for Preparation of Right-of-Way Maps
 - a. All procedures involving ROW maps, surveys and field notes shall be in conformance with the State's Right-of-Way, Book I and Book II, except as provided herein and in accordance with the Texas Board of Professional Land Surveying Practices Act.
 - b. The **engineer** shall be responsible for completing the title sheet as required and formatted by TxDOT and as discussed in Book II of the Right of Way Manual.
 - c. Preliminary and completed work shall be submitted as requested by the district.
 - d. The **engineer** shall maintain a direct line of communication and coordinate very closely with the district's design staff, through the district engineer, throughout the project.
 - e. (1) Minimum mathematical calculations relative to field note data are: (a) area of taking, if expressed in metric, will be carried to three decimal places or, if expressed in square feet, will be rounded to the square foot, (b) distances will be given to the nearest metric units and hundredth of a foot and (c) bearings will be carried to the nearest second. Data contained in the field notes and shown on the map shall be identical. More precise calculations may be requested by TxDOT.
(2) Calls within the body of the field notes shall be written to identify property lines and the existing and proposed ROW lines.
 - f. Project base line is to be drawn and stationed on the ROW map.
 - g. Minimum size lettering is to be 4 millimeters (5/32 inch) height for hand lettering and 140 for lettering by computer-aided design and drafting (CADD) on all ROW maps, unless otherwise authorized in writing by TxDOT.
 - h. As soon as property lines and parent tracts can be determined, the engineer shall submit a preliminary map for review of parcel numbers and guidance early in the development process.
 - i. Zip-a-tone or similar products shall not be used on map sheets.
 - j. All field notes and plats shall be signed, dated and sealed by a Registered Professional Land Surveyor or Licensed State Land Surveyor.
 - k. The ROW map sheets shall be ink or Mylar type tracing film or as otherwise authorized by TxDOT.
 - l. Field note data for all parcels shall be furnished on diskettes or tapes that are compatible with TxDOT.
 - m. THE SURVEYOR SHALL BE LIABLE FOR ALL SURVEYING MISTAKES AND SHALL BE RESPONSIBLE AT HIS SOLE EXPENSE FOR CORRECTION OF ALL ERRORS.
 - n. TxDOT Plan Checklist will be adhered to.

FIELD SURVEYING AND PHOTOGRAMMETRY
(Function Code 150)

ADDITIONAL SURVEYS TO SUPPLEMENT WORK AUTHORIZATION NO. 1

Services
 Provided By:
Engineer County

- | | | |
|------------|------------|---|
| | 1. | Field Surveying |
| <u>NO</u> | <u>YES</u> | a. Primary Project Control - 3 to 5 miles spacing
Precision shall be 1 part in 20,000 or better, unless otherwise directed by the district engineer.
(1) Establish horizontal control points
(2) Establish vertical control points |
| <u>NO</u> | <u>YES</u> | b. Secondary Project Control (Surveyor shall H&V Control Points and create Survey Data Sheets for inclusion in the Project Plans).
<ul style="list-style-type: none"> • No traverse should exceed 25 angle points. Planimetrics shall be 20 ft Lt & Rt from the proposed ROW. • The unadjusted angular error should not exceed 2 seconds per angle, plus 14 seconds. • The unadjusted ratio of precision should be one part in 10,000 or better. (The ratio of precision is the total length of the traverse divided by the total error.) • The unadjusted vertical error should not exceed 0.03 foot per mile of traverse. (1) Project control base lines |
| <u>NO</u> | | (2) Photogrammetric ground control |
| <u>NO</u> | | (a) Establish horizontal control |
| <u>NO</u> | | (b) Establish vertical control points |
| <u>NO</u> | | (c) Place and maintain control point targets |
| <u>YES</u> | <u>NO</u> | c. Other Field Surveying |
| | (1) | The limit of the Design surveys shall be 500-ft before and after the limits of the project as identified by the Project Engineer on the schematic. Recover and/or re-establish horizontal and vertical control. Set benchmarks at 1000-ft intervals and along each outfall identified on Exhibit A & B. The BM's shall be #5 I.R. 2-ft in depth set in concrete. A H&V Book will be provided by the Engineer to the Surveyor and the surveyor will provide a 3-pt reference sketch with ties to the BMs for inclusion the the existing H&V Control Book. Establish benchmark circuit throughout the project with a tolerance of 0.03'/ft per mile error vertically. |
| | (2) | Complete topographic and cross section survey, data processing, and CADD mapping (2D 3D). |
| | (3) | Locate all visible utilities, data processing and CADD mapping (2D & 3D) including irrigation lines. |
| | (4) | Field locate cross culverts, driveway culverts, inverts, irrigation lines, within the project limits, data processing and CADD mapping (2D & 3D). |
| | (5) | Right of Entry, Right of Way Research, and Appraisal District Records is the responsibility of the Surveyor. |
| | (6) | The Surveyor shall also paint the proposed centerline on the existing pavement as approved by Engineer. (500-ft stations and a tick mark at 100-ft. stations –12 inches long with approved paint by Engineer) before construction for the purpose of utility adjustments and project location. |
| | (7) | Profile and cross section intersecting streets for ties into project (500-ft. beyond the proposed ROW per schematic and 20-ft wider than the existing ROW of intersecting street). |
| | (8) | Cross section irrigation crossings for a distance of 20-ft beyond the proposed ROW at 100-ft intervals in a DTM file. Provide a complete description of irrigation appurtances as identified by the engineer sample layout. |
| | (9) | Tie Horizontally and Vertically the existing storm drain system that lies within the existing proposed ROW including the elevation of the outfall of said recovered existing storm drain systems. |

Services
 Provided By:
Engineer County

- | | | |
|------------|------------|--|
| <u>YES</u> | <u>NO</u> | (10) Tie to existing underground and overhead utilities (location, elevation and direction)
<u>Horizontally</u> – the surveyor shall call the 1-800 number for the utilities to be marked on the ground as well as any city water and sewer lines. He shall tie all visible utility crossings with name, address and Phone #'s of utility companies. The engineer will coordinate with the utility companies and jointly the Surveyor and the Engineer will identify which utilities were missed and need to be tied down.
<u>Vertically</u> – The engineer shall identify all utilities that are potential conflicts and that need to be tied vertically. The engineer will advise the surveyor in writing of the needed vertical ties and the surveyor will tie the lines vertically once the surveyor has coordinated the exposure and provide the information to the engineer. |
| <u>YES</u> | <u>NO</u> | (11) Additional Field Surveying as shown below:
(A) <u>IRRIGATION LINES</u> – The surveyor will meet with the engineer before he ties down any irrigation lines. The Engineer will provide him the existing Irrigation District Maps and the A&M Data of existing irrigation lines that are identified of record. He will follow the sample given to him by the engineer and tie the structures horizontally and vertically and provide Field Books to the engineer.
(B) <u>OUTFALLS</u> – The surveyor will provide a complete 2D & 3D File including utilities of the outfall identified on Exhibit A and B

<u>Driveways and Turnouts</u>
(a) Inventory commercial entrances, public roads and side streets separately.
(b) Obtain centerline station. (Width at ROW, PAV'T and existing radius.
(c) Inventory by type (dirt, caliche, gravel or paved). If paved, indicate condition in terms of no patches, has patches or has potholes. Obtain width at R.O.W. line.
(e) Obtain elevations at both edges of the driveway or turnout in line with the side drain. |
| <u>YES</u> | <u>NO</u> | (13) ROW staking (Existing and Proposed @ 1,000 ft. stations PC's PT's and Angle points as per ROW Map) |
| <u>NO</u> | <u>NO</u> | (14) Soil core hole staking - |
| <u>YES</u> | <u>NO</u> | (15) Determine changes in topography from voids and outdated maps due to development, erosion, etc. |
| <u>YES</u> | <u>NO</u> | (16) Profiles of existing drainage facilities |
| <u>NO</u> | <u>NO</u> | (17) Measurement of hydraulic opening under existing bridges |
| <u>YES</u> | <u>NO</u> | (18) Obtain elevations of manholes and valves of utilities |
| <u>YES</u> | <u>NO</u> | (19) Provide temporary signs, traffic control, flags, safety equipment, etc. |
| <u>YES</u> | <u>NO</u> | (20) Ties to existing bridges or culverts that may conflict with new construction. |
| <u>N/A</u> | <u>N/A</u> | (21) Bridge widening top of deck and/or top of cap elevations at the Profile Grade Line (PGL) and the edges of slab at bent locations. |
| <u>YES</u> | <u>N/A</u> | (22) Inventory signs, mailboxes, and driveways |
| <u>YES</u> | <u>N/A</u> | (23) Survey controlled data sheets per TxDOT guidelines. |

Services
Provided By:
Engineer County

- N/A N/A 2. Photogrammetric Products
- a. Uncontrolled Photography
 - (1) Contact Prints
 - (2) Mosaics
 - (3) Digital ortho plots
 - b. Mapping
 - (1) Planimetric Maps
 - (2) Contour Maps
 - (3) Cross Sections
 - (4) Profiles
 - (5) Digital Terrain Models (DTM)

ADDITIONAL RESPONSIBILITIES

Meetings

Meetings will be held with the FHWA, State Officials, local governments, property owners, utility owners, railroad companies, other consulting firms, etc., as needed or required by the COUNTY. The ENGINEER shall coordinate through the COUNTY for the development of this project with any local entity having jurisdiction or interest in the project (i.e., city, county, etc).

Specifications, Special Provisions, Special Specifications

Whenever possible, use the State's standard specifications or previously approved special provisions and/or special specifications. If a special provision and/or special specification is developed for this project, it shall be in the State's format and, to the extent possible, incorporate references to approved State test procedures.

The Engineer shall promptly make necessary revisions or corrections resulting from the Engineer's errors, omissions or negligent acts without additional compensation. Acceptance of the work by the COUNTY will not relieve the Engineer of the responsibility for subsequent correction of any such errors or omissions or for clarification of any ambiguities.

Document and Information Exchange

Data, Plan Sheets, General Notes and/or Specifications provided to the COUNTY shall be furnished on 8GB USB flash drives. Each 8 GB flash drive shall have a file titled Table of Contents. The Table of Contents shall indicate the locations of files within the directory structure of the documentation.

General Notes and specifications shall be provided in MS Office 2007 format. Plan sheets shall be provided in Microstation DGN or GEOPAK GPK format. PDF copies of plan sheets shall also be provided.

Two copies of the documentation shall be provided to the Company.

If required, the engineer shall provide to the COUNTY, a CD that contains all the plan sheets for the project. The graphics tape shall be compatible with the COUNTY's computer system.

CD Tape Required (YES or NO): **YES**

Proposal Time

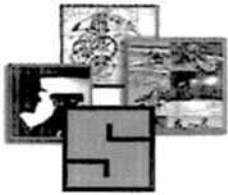
The time indicated in the proposal and the contract shall include time necessary for reviews, approval, etc.

Office Location

The engineer will perform the services to be provided under this agreement out of their office or offices listed below:

<u>Service</u>	<u>Office Location</u>
PS&E	
ROW Mapping & Management	Mission Office

The work effort will be managed out of the Mission
 office located at 900 South Stewart Rd.,
 (Address)
Mission, Texas.
 (City) (State)



J.E. SAENZ & ASSOCIATES, INC.

ENGINEERS ■ SURVEYORS ■ PLANNERS
CONSTRUCTION MANAGERS ■ GEOGRAPHICAL INFORMATION SYSTEMS
TBPE FIRM REGISTRATION No. 1273

June 28, 2010

Mr. Robert Macheska, P.E.
L & G Engineering
2100 W. Expressway 83
Mercedes, Tx 78570
Via E-Mail: rmacheska@lgengineers.com

Re: FM 493 Design Survey
From: BUS 83 South to US 281 (Military Highway)

Dear Mr. Macheska:

We are pleased to submit this proposal for the above referenced project. The services to be provided along with associated costs are as follows:

1.) ADDITIONAL DESIGN SURVEY FOR FM 493 \$58,420.00

(This work will be in addition to survey work approved on Work Authorization #1) In reference to the irrigation lines and structures J. E. Saenz & Associates, Inc. (JES) will not be able to provide locations of any irrigation lines by probing except at standpipes that have Irrigation District mapping provided. Any requested line locations that are not at standpipes will need to be exposed/pothole by a SUE provider. After a count of irrigation line locations needed, JES will submit a per pothole cost to provide these locations.

2.) R.O.W. MAPPING AND PARCELS \$367,500.00

Our site visits and preliminary research on FM 493 has led us to the understanding that there are approximately 105 parcels for right-of-way acquisition. Based on this information our basic fee for right-of-way mapping and re-staking proposed right-of-way is \$367,500.00 (Estimated at \$3,500 per parcel). We are prepared to move forward and expedite all necessary documentation and coordinate the acquisition procedures with Hidalgo County Right-of-Way Department for L&G Engineering. We will be conducting services for the parcel as follows:

- Property Owner Investigation
- Property Map
- Right-of-Way Map
- Aerial map
- Metes and Boundary Description
- Set all Parcel Lot Corners
- Re-staking Proposed Right-of-Way

POST OFFICE BOX 3293
EDINBURG, TEXAS 78540
www.jesaenz.com

(956) 383-2984 TEL
(956) 383-3736 FAX
info@jesaenz.com

Exhibit D-1 "Cost Proposal"



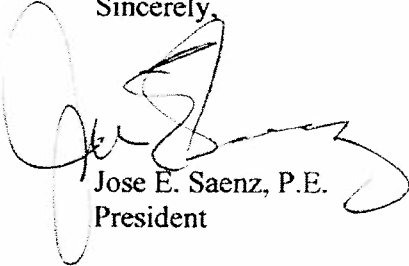
J.E. SAENZ & ASSOCIATES, INC.

ENGINEERS ■ SURVEYORS ■ PLANNERS
CONSTRUCTION MANAGERS ■ GEOGRAPHICAL INFORMATION SYSTEMS
TBPE FIRM REGISTRATION No. 1273

Our total estimated fee for the above mentioned professional survey services are **\$425,920.00**. The work schedule, Attachment "C", is based on right of entry to be provided by L&G in a timely manner.

Should you have any questions, or need additional information, please contact our office.

Sincerely,



Jose E. Saenz, P.E.
President

Cc: File
JES/fq

POST OFFICE BOX 3293
EDINBURG, TEXAS 78540
www.jesaenz.com

(956) 383-2984 TEL
(956) 383-3736 FAX
info@jesaenz.com

**Exhibit D - Cost Proposal
& Estimated Local & State Participation for FM 493 South
Limits: From Business 83 to US 281 (Military)**

	Pct. #1-L&G WA #1 Executed (12/9/08)				Funds Required by 11/15/10			WA #2 Pending			WA #3 Pending	WA #4 Pending	ESTIMATED TOTAL PARTICIPATION
	Schematics (Submitted to TxDOT)	PS&E Development (In Process)	Env. Doc. (Submitted to ENV)	Des. Surveys (Pending Surveyor)	* ROW Land Cost	Compensable Utilities	* Relocations	ROW Map	Additional Design Surveys Requested	ROW Mapping Management	ROW Acquisition Services	Construction & Inspection	
CITY	\$0.00	\$0.00	\$0.00	\$0.00	\$3,560.00 (2)	\$10,211.00 (5)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$13,771.00
COUNTY	\$254,000.00	\$650,000.00 (1)	\$90,000.00	\$150,000.00	\$18,847.50 (3)	\$0.00	\$0.00	\$367,500.00 (7)	\$58,420.00 (9)	\$25,745.50	\$1,352,054.50 (8)	\$60,000.00	\$3,026,567.50
TxDOT	\$0.00	\$0.00	\$0.00	\$0.00	\$1,590,092.50 (4)	\$1,010,914.00 (6)	\$25,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6,300,000.00	\$8,926,006.50
TOTALS	\$254,000.00	\$650,000.00	\$90,000.00	\$150,000.00	\$1,612,500.00	\$1,021,125.00	\$25,000.00	\$367,500.00	\$58,420.00	\$25,745.50	\$1,352,054.50	\$6,360,000.00	\$11,966,345.00
					TOTAL FUNDS REQUIRED:		\$2,658,625.00						

██████████	Work Authorization No. 1	\$1,144,000.00	ISSUED
██████████	Work Authorization No. 2	\$451,665.50	PENDING
██████████	Work Authorization No. 3	\$1,352,054.50	PENDING
██████████	Work Authorization No. 4	\$60,000.00	PENDING

- (1) Cost includes: Utility Coordination, Outfall Identification, Prelim. ROW Ownership & PS&E Design
- (2) City Participation: 11 Parcels (8.9 acres) @ \$40,000/acre = \$356,000 @ 1% = \$3,560 (Pending TxDOT Release of ROW est. Date: 11/15/10, 1 month after est. FONSI Date: 10/15/10)
- (3) County Participation: 94 Parcels - Undeveloped = 17.8 acres @ \$40,000/acre = \$712,000 @ 1.5% Participation = \$10,680; Developed = 5 acres = 217,800 sf @ \$2.50/sf = \$544,500 @ 1.5% = \$8,167.50 (Total=\$712,000 + \$544,500 = \$1,256,500)
Total County Participation = \$10,680 + \$8,167.50 = \$18,847.50 (Pending TxDOT Release of ROW est. Date: 11/15/10, 1 month after est. FONSI Date: 10/15/10)
- (4) State Participation: City - \$356,000 @ 99% Participation = \$352,440; County (Undeveloped) - \$712,000 @ 98.5% = \$701,320; County (Developed) - \$544,500 @ 98.5% = \$536,332.50
Total State Participation = \$352,440 + \$701,320 + \$536,332.50 = \$1,590,092.50
- (5) City Participation: San. Sewer - 13,615 l.f. @ \$75/l.f. = \$1,021,125 @ 1% Participation = \$10,211.00 (Pending TxDOT Release of ROW est. Date: 11/15/10, 1 month after est. FONSI Date: 10/15/10)
- (6) State Participation: San. Sewer - \$1,021,125 @ 99% = \$1,010,914.00
- (7) County Participation: 105 parcels @ \$3,500/parcel = \$367,500.00 (Pending approval of schematic by TxDOT/FHWA; was submitted to TxDOT 4/5/10, est. approval date 10/5/10)
- (8) County Participation: 105 parcels @ \$12,500/parcel (Pending TxDOT Release of ROW est. Date: 11/15/10, 1 month after est. FONSI Date: 10/15/10)
- (9) After Completion of Schematic with Public Involvement the proposed survey work by J.E. Saenz & Associates requesting additional \$58,420.00

* Pending Execution of ROW Agreement Between TxDOT & County/City

EXHIBIT "D"
Work Authorization No. 2
FM 493 Right of Way Mapping and Surveys
L & G ENGINEERING

3.1

Task	Project Manager	Engineer	Admin/ Clerical	Total Hours	Direct Labor	Total Cost
	\$50.00	\$44.00	\$17.50			
PROJECT MANAGEMENT						
Project Management of Contract/Progress Reports	20	40	16	76	\$3,040.00	\$9,424.00
Provide a review of submittals and coordinate revisions	20	40	6	66	\$2,865.00	\$8,881.50
Processing of Invoices	20	0	80	100	\$2,400.00	\$7,440.00
<i>Total for L&G Engineering</i>	60	80	102	242	\$8,305.00	\$25,745.50
SERVICES PROVIDED BY SUB-CONSULTANT						
See Att. D-1 from J.E. Saenz and Associates Additional Design Field Surveys						\$58,420.00
See Att. D-1 from J.E. Saenz and Associates Field Surveys ROW Mapping and Parcels						\$367,500.00
<i>Total for J.E. Saenz & Associates</i>						\$425,920.00
TOTAL LABOR						\$451,665.50

TOTAL **\$451,665.50**

