

HIDALGO COUNTY
Professional Engineering Services
Contract # C-07-358-09-04
Work Authorization Form

Work Authorization No. 8

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of Article 1. of the Agreement made by and between the **HIDALGO COUNTY**, acting herein by and through Commissioner's Court, hereinafter called the "**Owner**," and, **R. GUTIERREZ ENGINEERING CORPORATION**, professional engineers of Pharr, Texas, hereinafter called "**Engineer**".

PART 1. SCOPE OF WORK

The purpose of this Work Authorization is for the **Engineer** to provide engineering and surveying services in the development of the Las Milpas Road project. Hidalgo County desires to improve Las Milpas Road from a two-lane or unpaved county or road section to a 4-lane urban highway facility. The limits of work are from 10th Street on the west to Jackson Road on the east. The length of the project is approximately 1.7 miles. The proposed work will consist of providing: preliminary engineering and schematic design, topographic and right-of-way surveying, right-of-way map and parcels preparation development for the project.

The project will be developed in three parts. Part 1 will cover from 10th Street to just east of the Irrigation Canal, a distance of approximately 0.65 miles. Part 2 will cover from just east of the Irrigation Canal to McColl Road, a distance of approximately 0.5 miles. Part 3 will cover from McColl Road to Jackson Road, a distance of approximately 0.55 miles. The project will be developed in accordance with a schedule and sequence that would allow the project to be constructed in a manner more advantageous to the **Owner**.

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 included in **Exhibit D – Fee Estimate**. The actual amount payable for services under this Work Authorization will be in accordance with Article 5.

PART 3. PAYMENT

Payment to the Engineer for the services established under this Work Authorization shall be made in accordance with Article 8.

PART 4. FUNDING

This Work Authorization No. 8 shall be funded through funding source:

Account No. 8-1202-431-00-122-006-0-731

Requisition No. 137129 (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 shall terminate upon completion of the scope of services of the work as provided in Article 3.

PART 6. RESPONSIBILITIES AND OBLIGATIONS

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

PART 7. ACCEPTANCE AND ACKNOWLEDGEMENT

This Work Authorization is hereby accepted and acknowledged as indicated below and effective as of ___ day of _____, 2008.

ENGINEER:

R. Gutierrez Engineering Corporation

By: Ramiro Gutierrez
Name: Ramiro Gutierrez, P.E.
Title: President

OWNER:

COUNTY OF HIDALGO

By: Hector "Tito" Palacios
Name: Hector "Tito" Palacios
Title: Commissioner Pct. No. 2

By: Juan D. Salinas
Name: Juan D. Salinas
Title: County Judge

LIST OF ATTACHMENTS

- EXHIBIT A – Services to be Provided by the Owner
- EXHIBIT B – Services to be Provided by the Engineer
- EXHIBIT C – Work Schedule
- EXHIBIT D – Fee Estimate

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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**.

General

The **Owner** will provide to the **Engineer** the following:

- (1) Payment for work performed by the **Engineer** and accepted by the **Owner** in accordance with Article 5 and Article 6, both of this Agreement.
- (2) 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.
- (3) Provide any available relevant data the **Owner** may have on file concerning the project.
- (4) Provide timely review and decisions in response to the **Engineer's** request for information and/or required submittals and deliverables.
- (5) Attend and participate in progress meetings as required and as coordinated and conducted by the **Engineer**.
- (6) Assist **Engineer** with obtaining permission to enter on properties for the purpose of surveying and engineering investigations for the project.

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EXHIBIT B

Services to be Provided by the Engineer

The following provides an outline of the services to be provided by the **Engineer** in the development of the **Project**.

The **Engineer** will provide to the **Owner** the following:

PHASE I – PRELIMINARY PHASE

The Engineer will perform, or provide for, professional engineering and surveying services for the preliminary engineering part of the development and upgrading of Las Milpas Road from a two-lane or unpaved county road section to a 4-lane urban highway facility. The Engineer will perform field surveying for the purpose of establishing vertical and horizontal control for the Project. The Engineer will perform detailed topographic surveying for use in developing the project. The Engineer will also provide an inventory of existing utility information and provide coordination with these utilities for their adjustment. The Engineer will develop a schematic of the proposed improvements.

Field Surveying. The Engineer will secure written permission to enter private property for the purpose of surveying and engineering investigations. The Engineer will establish primary Project control for field surveying by establishing horizontal and vertical control points, and perform a detailed topographic survey of the project. All surveying will be tied to the State Plane Coordinate System.

The Engineer will provide the following:

- 1) **Vertical and Horizontal Control.** Establish and stake the Project control centerline (baselines) and offset for the Project or portions of the Project. Establish vertical control by looping all benchmark (BM) circuits and tie to monument permanent BM elevation. BM's are to be set at approximately 1,000 ft. intervals, or at intervals appropriate to suit field conditions, using Global Positioning System (GPS) survey, and in a location that will be undisturbed by future construction.
- 2) **Topography.** Obtain topographic information surveyed for the length of the control centerline, as required; provide location (station and offset), size, height,

and depth and/or length and description of topographic features; to include, but not limited to the following: driveways, signs, light poles, mail boxes, all fences (including metal beam guard fence and turndowns), utilities (type, owner, location, and depth), riprap, existing right of way lines, private property lines, county and/or city limits, etc.. Drainage elements to include: flow lines and/or top of structures for drain pipes, inlets, manholes, other miscellaneous structures and ditches.

- 3) Design Centerline. Establish and stake the design centerline.

Utility Coordination/Inventory

- 1) The Engineer will develop utility layout sheets from schematics and incorporate utility information; identify all existing overhead and above ground utilities; identify all existing underground utilities; document all information on utility layout sheets; identify potential conflicts. The layout sheets will be reproducible drawings (11" X17") with the following information:
 - a) Existing and/or proposed right of way lines
 - b) Benchmark data
 - c) Existing and proposed drainage system(s)
 - d) Location and size of utility
 - e) Limits of existing casing pipe
 - f) Name of the owner/company
- 2) The Engineer will coordinate utility adjustments with Owner and all affected utility owners as necessary.

Schematic Design. The Engineer will develop a final schematic design of the proposed project improvements. A maximum of two (2) different preliminary schematic designs will be developed and presented to the Owner. From the comments received from the Owner one (1) final schematic design will be developed. The Project is divided into three (3) parts and those will be identified in the final schematic design.

ADDITIONAL SERVICES

The Right-of-Way Mapping and Parcels, and Geotechnical Investigation work will be considered as an additional service as stipulated in the Agreement.

Right - Of - Way Mapping and Parcels

The Engineer will develop a right-of-way map for the Owner to use in acquiring the necessary parcels to implement the project. Procedures followed will be those

satisfying TxDOT requirements for federally funded projects and utilized by the Owner. The surveyor will utilize ownership information obtained from an independent contractor or provided by the Owner in developing the right-of-way map. The surveyor will perform field surveying to establish the existing and proposed right-of-way lines and easement boundaries. The surveyor will prepare field notes and parcel sketches, signed and sealed by a Registered Professional Land Surveyor, for each parcel to be acquired. The surveyor will perform any necessary revisions to the right-of-way map, field notes and parcel sketches as required to complete the project.

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EXHIBIT C
Work Schedule

The schedule for the work in this Work Authorization shall commence on the date of execution of this Work Authorization and continue for:

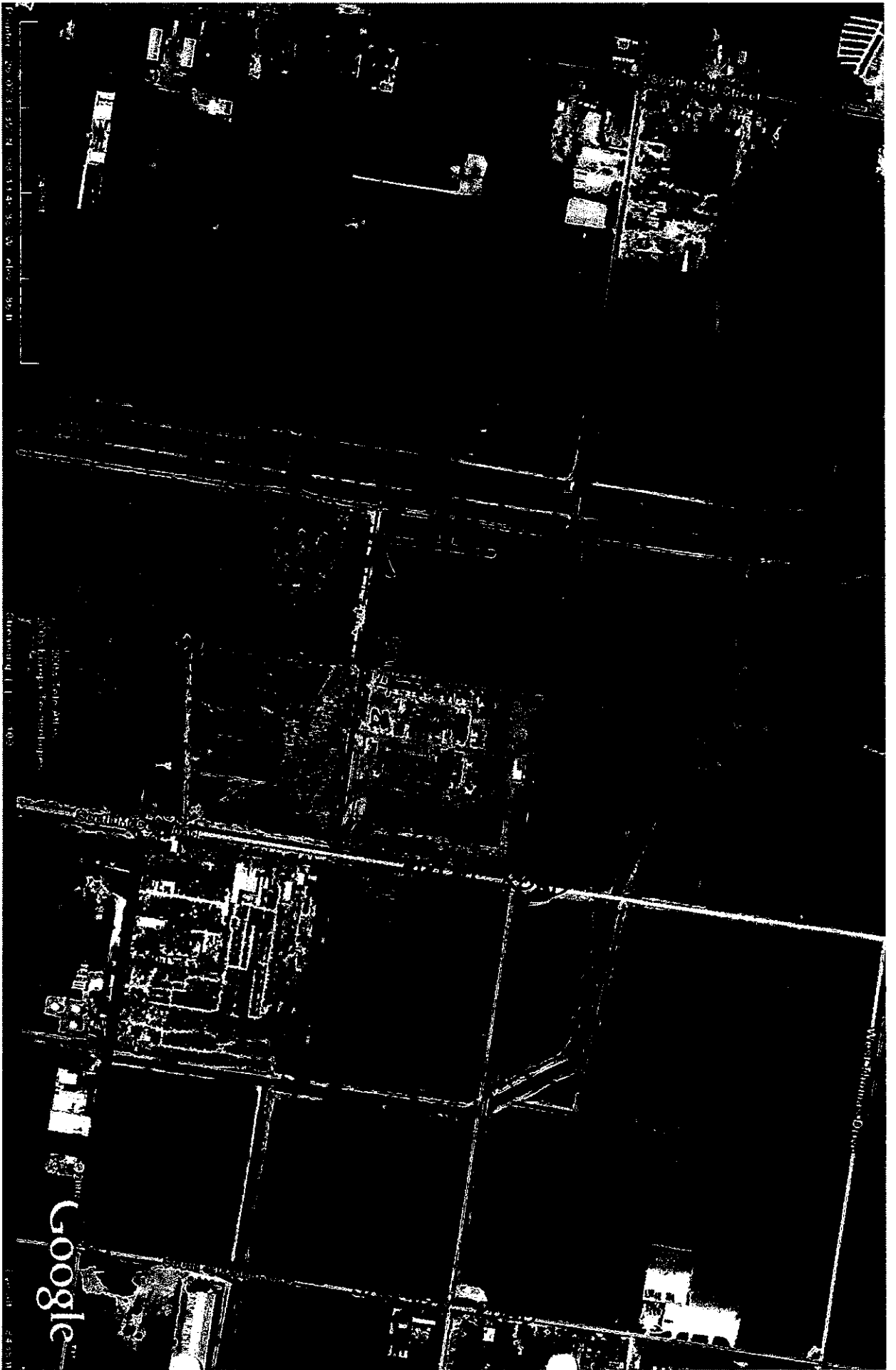
(1) a period which may reasonably be required for the preliminary engineering design for the Project including the various parts, phases, any extra work and any required additions thereto; or

(2) a period extending 12 months after the completion of the services called for as described in Exhibit B of this Work Authorization, which ever may be pertinent, in case construction is not commenced.

The final acceptance by the Owner of each phase of work on the Project shall serve as evidence of completion of that phase of work on the Project.

FEE ESTIMATE

TASK	PART 1 - CONTRACT AMOUNT	PART 2 - CONTRACT AMOUNT	PART 3 - CONTRACT AMOUNT	TOTAL
Basis for Engineering Fee based on Article 5A of Contract				
Project Estimated Construction Cost	\$1,708,036	\$774,460	\$890,663	\$3,373,159
Engineering Services Fee (8% of Construction Cost)	\$136,643	\$61,957	\$71,253	\$269,853
Topographic Survey Services Fee (2.5% of Construction Cost)	\$42,701	\$19,362	\$22,267	\$84,329
Basic Fee (Prelim Eng, Design & Construction Services Fee)	\$179,344	\$81,318	\$93,520	\$354,182
PART I - PRELIMINARY ENGINEERING (50% of Basic Fee)	\$89,672	\$40,659	\$46,760	\$177,091
TOPOGRAPHIC SURVEY (40% of Prelim Eng Fee)	\$35,869	\$16,264	\$18,704	\$70,836
SCHEMATIC DESIGN (60% of Prelim Eng Fee)	\$53,803	\$24,395	\$28,056	\$106,255
SUB-TOTAL (Prelim Eng Fee)	\$89,672	\$40,659	\$46,760	\$177,091
PART II - RIGHT-OF-WAY MAP (Add'l Services)	\$8,400	\$8,400	\$8,400	\$25,200
OBTAIN TITLE REPORTS (Est 12 Parcels) (@ \$600.00/Parcel)	\$2,400	\$2,400	\$2,400	\$7,200
DEVELOP PARCELS & R.O.W. MAP (Est 12 Parcels) (@ \$1,500.00/Parcel)	\$6,000	\$6,000	\$6,000	\$18,000
SUB-TOTAL (R.O.W. Map Fee)	\$8,400	\$8,400	\$8,400	\$25,200
TOTAL	\$98,072	\$49,059	\$55,160	\$202,291



LAS MILPAS ROAD

McCull Rd to Irrig Canal
Statement of Probable Cost

Projec Length: 0.65 Mile 3,430 LF

Proposed R.O.W.: Varies FT

Hot Mix: 3 IN
 Base Mat'l: 10 IN
 Lime Trt Subg: 12 IN
 Percent Lime for Subg: 3 %
 Percent Lime for Base: 2 %
 Prime Coat Rate: 0.2 Gal/Sy
 Turnout Radius: 30 FT
 Intersecting Rdwy Width: 64 FT
 Construction Duration: 3 MO

100	Prep R.O.W.	32.40	Sta	\$ 600.00	\$ 19,440.00
110	Rdwy Excavation	3,969.00	CY	\$ 5.00	\$ 19,845.00
132	Rdwy Embankment	3,237.00	CY	\$ 5.00	\$ 16,185.00
247	Flex Base	5,595.00	CY	\$ 18.00	\$ 100,710.00
260	Lime Treat Subg	20,862.00	SY	\$ 2.00	\$ 41,724.00
260	Lime Treat Subg	312.93	Ton	\$ 180.00	\$ 56,327.40
262	Lime Treat Base	20,142.00	SY	\$ 2.00	\$ 40,284.00
262	Lime	188.83	Ton	\$ 180.00	\$ 33,989.63
310	Asph Mat'l	3,596.40	Gal	\$ 2.50	\$ 8,991.00
340	Hot Mix	3,074.92	Ton	\$ 65.00	\$ 199,869.93
402	Trench Excavation Protection	3,074.92	LF		
464	RCP (CL III)(18")	307.00	LF	\$ 30.00	\$ 9,210.00
464	RCP (CL III)(24")	350.00	LF	\$ 38.00	\$ 13,300.00
464	RCP (CL III)(30")	1,242.00	LF	\$ 46.00	\$ 57,132.00

McCull Rd to Irrig Canal
Statement of Probable Cost

Project Name:	Las Milpas Rd - McCull Rd to Irrig Canal	
Projec Length:	0.47 Mile	2,486 LF
Project Limits:		
From:	McCull Road	
To:	Irrig Canal	
Proposed R.O.W.:	Varies	FT
Roadway Width:	Varies	FT
Hot Mix:		3 IN
Base Mat'l:		10 IN
Lime Trt Subg:		12 IN
Percent Lime for Subg:		3 %
Percent Lime for Base:		2 %
Prime Coat Rate:	---	0.2 Gal/Sy
Turnout Radius:		30 FT
Intersecting Rdwy Width:		64 FT
Construction Duration:		3 MO

Item	Item Description	Quantity	Unit	Unit Cost	Total Cost
100	Prep R.O.W.	24.86	Sta	\$ 600.00	\$ 14,916.00
110	Rdwy Excavation	2,963.67	CY	\$ 5.00	\$ 14,818.33
132	Rdwy Embankment	2,510.93	CY	\$ 5.00	\$ 12,554.63
247	Flex Base	4,338.33	CY	\$ 18.00	\$ 78,090.00
260	Lime Treat Subg	16,170.44	SY	\$ 2.00	\$ 32,340.89
260	Lime Treat Subg	242.56	Ton	\$ 180.00	\$ 43,660.20
262	Lime Treat Base	15,618.00	SY	\$ 2.00	\$ 31,236.00
262	Lime	146.42	Ton	\$ 180.00	\$ 26,355.38
310	Asph Mat'l	2,792.13	Gal	\$ 2.50	\$ 6,980.33
340	Hot Mix	2,387.27	Ton	\$ 65.00	\$ 155,172.81
402	Trench Excavation Protection	2,387.27	LF		
464	RCP (CL III)(18")	307.00	LF	\$ 30.00	\$ 9,210.00
464	RCP (CL III)(24")	350.00	LF	\$ 38.00	\$ 13,300.00
464	RCP (CL III)(30")	1,242.00	LF	\$ 46.00	\$ 57,132.00
464	RCP (CL III)(36")	700.00	LF	\$ 58.00	\$ 40,600.00

McColl Rd to Jackson Rd
Statement of Probable Cost

Project Name:	Las Milpas Rd -Jackson Rd to McColl Rd	
Projec Length:	0.56 Mile	2,962 LF
Project Limits:		
From:	McColl Road	
To:	Approx 2,150 LF West	
Proposed R.O.W.:	Varies	FT
Roadway Width:	Varies	FT
Hot Mix:	3 IN	
Base Mat'l:	10 IN	
Lime Trt Subg:	12 IN	
Percent Lime for Subg:	3 %	
Percent Lime for Base:	2 %	
Prime Coat Rate:	0.2 Gal/Sy	
Turnout Radius:	30 FT	
Intersecting Rdwy Width:	64 FT	
Construction Durationi:	3 MO	

Item	Item Description	Quantity	Unit	Unit Cost	Total Cost
100	Prep R.O.W.	29.62	Sta	\$ 600.00	\$ 17,772.00
110	Rdwy Excavation	3,247.33	CY	\$ 5.00	\$ 16,236.67
132	Rdwy Embankment	3,086.30	CY	\$ 5.00	\$ 15,431.48
247	Flex Base	5,326.67	CY	\$ 18.00	\$ 95,880.00
260	Lime Treat Subg	19,834.22	SY	\$ 2.00	\$ 39,668.44
260	Lime Treat Subg	297.51	Ton	\$ 180.00	\$ 53,552.40
262	Lime Treat Base	19,176.00	SY	\$ 2.00	\$ 38,352.00
262	Lime	179.78	Ton	\$ 180.00	\$ 32,359.50
310	Asph Mat'l	3,440.27	Gal	\$ 2.50	\$ 8,600.67
340	Hot Mix	2,941.43	Ton	\$ 65.00	\$ 191,192.82
402	Trench Excavation Protection	2,941.43	LF		
464	RCP (CL III)(18")	307.00	LF	\$ 30.00	\$ 9,210.00
464	RCP (CL III)(24")	350.00	LF	\$ 38.00	\$ 13,300.00

R. Gutierrez Engineering Corporation

Transmittal Form

130 E. Park Ave. - Pharr, Texas 78577 - Telephone: 956 - 782 - 2557 - Fax: 956 - 782 - 2558

TO: Erin Galvan
MidCo A/C 2

FROM: Oleg
 SUBJECT: Low Voltage
 PROJECT NO.: EW 607.032h
 DATE: 6/30/08

WE ARE SENDING YOU ATTACHED UNDER SEPARATE COVER VIA Hand Delivery THE FOLLOWING ITEMS:

BLUEPRINTS PLANS SHOP DRAWINGS CD
 CHANGE ORDER SAMPLES PAYMENT REQUEST OTHER
 BID TABULATION CONTRACT DOCUMENTS RECORD DRAWINGS 3 1/2" DISKETTE

QUANTITY / SETS	DATED	ITEM DESCRIPTION
1		Letter
2		Work Authorization # 8
2		Distrib A-B (6x8) - C-D
1		Site Map (01/04)
1		Legal Statement of Work
1		Legal Statement of Work
1		Legal Statement of Work
1		Legal Statement of Work

THESE ARE TRANSMITTED AS CHECKED BELOW:

- FOR BIDS DUE
- FOR APPROVAL
- FOR YOUR USE
- AS REQUESTED
- FOR REVIEW AND COMMENT
- APPROVED AS NOTED
- APPROVED AS SUBMITTED
- RETURN FOR CORRECTIONS
- FOR FURTHER PROCESSING
- FOR SIGNATURE
- FOR YOUR RECORDS
- FOR YOUR ACKNOWLEDGEMENT
- RESUBMIT FOR APPORVAL
- ON LOAN
- OTHER

COMMENTS:

Copy Distribution file

Received by:

Erin Galvan

R. Gutierrez Engineering Corporation

June 30, 2008

Hector "Tito" Palacios
County Commissioner
Hidalgo County Precinct No. 2
301 E. State Street
Pharr, TX 78577

RE: Work Authorization No. 8 – Las Milpas Road
From 10th Street to Jackson Road
Project No: ENG07.032h

Dear Commissioner Palacios:

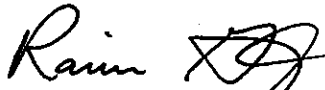
Enclosed are two original signature copies of a proposed Work Authorization No. 8 of the 2007 Road & Bridge Contract. This work authorization is for professional services associated with the Las Milpas Road project. The work consists of providing preliminary engineering, topographic surveying, right-of-way mapping, utility coordination, schematic design, geotechnical investigation, engineering design, construction plans development, construction administration and management services for the proposed road improvements.

The project is being broken down into three (3) parts. Part 1 is from 10th Street to just east of the Irrigation Canal. Part 2 is from just east of the Irrigation Canal to McColl Road. Part 3 is from McColl Road to Jackson Road. The work can be done in any sequence or schedule the County desires.

I have attached a cost estimate for the three parts of the project. The cost estimate is based on designing and constructing a 4-lane road with a turn lane at the major intersections (ie. 10th Street, McColl Road and Jackson Road).

If this Work Authorization No 8 meets your approval, please place it before Commissioners Court for approval and signature. Please return one original signature copy for my files. If you have any questions, please call me so that we may discuss them. You can call me at 956-782-2557 or on my mobile at 956-227-2154.

Sincerely,



Ramiro Gutierrez, P.E.
President

encl

Files

RECEIVED
Yolie Jackson

130 E Park – Pharr, TX 78577 – Tel: 956-782-2557 – Fax: 956-782-2558 – E-mail: rgutierrez@rgutierrezengineering.com

JUN 30 2008
HIDALGO COUNTY
PRECINCT #2

