



May 13, 2024

Honorable Eduardo “Eddie” Cantu  
**Attn: Erika Zamora ~ Director of Management Operations**  
Commissioner, Hidalgo County Pct. No. 2  
300 West Hall Acres, Ste G  
Pharr, Texas 78589

**RE: Nolana Loop Project - Work Authorization #4**  
**Limits: from FM 1426 (Raul Longoria) to Alamo Rd. (FM907)**  
**C-17-088-04-05**

Dear Commissioner Cantu:

As per Hidalgo County Commissioner’s Court, on April 13, 2017, L&G Engineering was selected to perform the professional engineering services for the subject project. Attached for your review and approval is Work Authorization No. 4 for the Nolana Loop Project (from: FM 1426 (Raul Longoria) to Alamo Rd (FM 907).

Attached you will find the following:

- 1.) Two (2) signed originals of Work Authorization No. 4 with the following 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-1 “Estimated Man-hour Breakdown”

Should you have any questions regarding this submittal, do not hesitate to call me at (956) 565-9813.

Sincerely,



Jacinto Garza, P.E.  
President

Attachments

**HIDALGO COUNTY**  
**Professional Engineering Services**  
**Contract # C-17-088-04-05**  
**Work Authorization Form**

**WORK AUTHORIZATION NO. 4**

**THIS WORK AUTHORIZATION** is made pursuant to the terms and conditions of Article I. 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 Construction Bid Assistance and Engineering Construction Oversight for the Nolana Loop Project (from FM 1426 (Raul Longoria Rd) to FM 907 (Alamo Rd)).

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 **\$350,075.00.** This amount is based upon the costs outlined in the Estimated **Cost Proposal** attached hereto as *EXHIBIT “D” Fee Schedule.*

**PART 3. PAYMENT**

Compensation and payment to the Engineer for the services established under this Work Authorization shall be made in accordance with **Article 5** of the Agreement.

**PART 4. FUNDING**

This Work Authorization No. 4 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. 2**, Commissioner Eduardo "Eddie" Cantu, as to content and detail of this **Work Authorization No. 4**.

**HIDALGO COUNTY  
COMMISSIONER PRECINCT NO. 2**

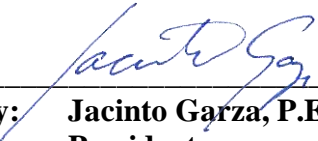
**BY:** \_\_\_\_\_

**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**

**THE OWNER:  
HIDALGO COUNTY**

  
\_\_\_\_\_  
**By: Jacinto Garza, P.E.  
President**

\_\_\_\_\_  
**By: Richard F. Cortez,  
County Judge**

**ATTEST:**

\_\_\_\_\_  
**By: Arturo Guajardo, Jr., County Clerk**

**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 Schedule

EXHIBIT “A”  
SCOPE OF SERVICES TO BE PROVIDED BY THE OWNER

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The following provides an outline of the services to be provided by the **Owner** in the development of the proposed improvements to Nolana Loop located within both the City of San Juan and Hidalgo County Jurisdiction, and within the limits of FM 1426 (Raul Longoria Rd.) and FM907 (Alamo Rd.) in Hidalgo County hereinafter denoted as the **Project**.

**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 5 of the 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 **Project**.
- 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 “C” attached to this Work Authorization.
- 6) Attend and participate in progress meetings as required and as coordinated and conducted by **Engineer**.

**EXHIBIT "B"**  
**SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER**

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**SECTION 1-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: \_\_\_\_\_

PROJECT/DESCRIPTION: Local Letting, Construction Management

LENGTH: 2.19 MILES

HIGHWAY: Nolana Road

LIMITS: FROM: FM 1426 (Raul Longoria to FM 907 (Alamo Rd.

**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)

ENGINEER shall mean L&G Engineering.

SURVEYOR shall mean \_\_\_N/A\_\_\_\_\_.

STATE shall mean Texas Department of Transportation.

LPA shall mean Local Public Agency Hidalgo County.

SURVERYOR shall mean \_\_\_N/A\_\_\_\_\_.

EXHIBIT "B"  
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

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SECTION 12 - CONSTRUCTION PHASE SERVICES

(Function Code 320)

Services  
Provided By:  
ENGINEER LPA

YES      NO      **CONSTRUCTION MANAGEMENT SERVICES:**

The ENGINEER will provide engineering, and support services for and during the construction of the Project or portions of the Project approved by the LPA. Specific (basic and special) services for CONSTRUCTION MANAGEMENT AND SUPPORT by the ENGINEER will include the following:

**Construction Bidding: 25% of the Work Authorization task**

YES      NO      1) The ENGINEER will furnish the LPA the necessary copies of approved plans, specifications, notices to bidders, and proposals as prepared under PS&E.

YES      NO      2) The ENGINEER will assist the LPA on the tabulation of bids, recommendations to the Owner as to the proper action on all bid proposals received, and the preparation of formal contract documents for the award of each construction contract.

**Construction Contract Administration and Management: 75% of the Work Authorization task**

YES      NO      3) In general, the ENGINEER will provide the management and engineering support/data required for consultation and advisement to the LPA and act as the LPA's representative as provided in the General Condition of the Construction Contract.

NO      NO      4) The ENGINEER will coordinate and conduct a pre-construction conference

YES      NO      5) Defects and Deficiencies. The ENGINEER will use his best efforts to protect the LPA against defects and deficiencies in the work of the Contractor. The ENGINEER will promptly notify the LPA of any such defect or deficiency, and take all steps possible to require the Contractor to correct the defect or deficiency.

NO      NO      6) Contractor Payment. The ENGINEER will review quantities as submitted by the Contractor and will coordinate with the LPA for the preparation of the monthly and final estimates for payment to the Contractor.

7) The ENGINEER will provide Project site inspection of the authorized construction contract as follows:

YES      NO      a) Project Engineer. The ENGINEER will provide monthly visits by the Project Engineer or a competent representative of the ENGINEER to the site of construction for the purpose of monitoring the Contractor's progress and conformance to the construction contract plans and specifications.

NO      NO      b) Resident Engineer and/or Construction Inspector(s). The ENGINEER will furnish the services of a Resident Engineer and/or Construction Inspector(s) for on the site inspection construction to monitor/inspect the Contractor's daily progress and conformance to TxDOT's PS&E specifications.

**EXHIBIT "B"**  
**SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER**

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Services  
Provided By:  
ENGINEER    LPA

**Environmental Permit Compliance and Construction Monitoring**

N/A      N/A      8) Periodic field visits shall be conducted at the construction site during the construction of the culvert at the drainage crossings and the drainage ditch to ensure compliance of the General Conditions of NWP throughout the duration of construction and document and photograph field visits. An administrative record of the environmental permit compliance activities during construction for final submittal to USACE upon construction completion will be completed and submitted to USACE. Once construction is completed, Engineer shall assist the LPA with the compliance certification which provides the USACE a signed certification documenting completion of construction activity and will submit the necessary paperwork to USACE.

The pre-construction meeting shall be attended. The General Contractor shall be provided with the General Conditions of the Nationwide Permits (NWP). The General Conditions of the NWP at the pre-construction meeting shall be reviewed with the Contractor.

**Miscellaneous Technical Activities:**

YES      NO      9) Shop Drawings. The ENGINEER will review and check design related (Not Stds) shop or working drawings furnished by the Contractor.

NO      NO      10) Control of Materials & Equipment. The ENGINEER will provide inspection of all materials and equipment furnished/used by the Contractor as follows:

NO      NO      a) Review and record all laboratory, shop and mill tests of materials and equipment for compliance with the construction contract specifications.

NO      NO      b) Observe and/or perform Project record testing and/or independent assurance testing as outlined in the construction contract specifications.

NO      NO      11) Change Orders. When applicable the ENGINEER will prepare the engineering data, including plan sheet drawings, specifications, and estimates, for the preparation of construction contract change orders, which may be required due to actual field conditions encountered or new requirements directed by the LPA.

NO      NO      12) As Built Drawings. The ENGINEER will develop as built drawings to depict the work as actually constructed. The LPA will be furnished five (5) set of prints.

EXHIBIT "B"  
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

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Services  
Provided By:  
ENGINEER    LPA

N/A      N/A      **CONSTRUCTION MATERIAL TESTING:**

The ENGINEER will provide the LPA with construction material testing services for the Project. The services to be provided include sampling and testing of all construction materials as required by the project plans and specifications. All sampling frequencies and test procedures will be performed in general accordance with the Texas Department of Transportation TEX methods (or ASTM methods as required) as outlined in the Guide Schedule for Sampling and Testing (11/07). The construction material testing includes, but is not limited to the following:

- (a) Sampling and laboratory testing of soils and base materials proposed for use in the construction of Project (Roads/Bridges/Misc.) to determine compliance of these materials with project plans and specifications.
- (b) Field density testing of soils and base materials to ensure proper compaction as required by project plans and specifications.
- (c) Field sampling and testing of fresh concrete, and laboratory testing of hardened concrete to determine compliance with project plans and specifications.
- (d) Field compaction testing of asphalt to ensure proper compaction during lay down operations.
- (e) Field inspection, sampling and laboratory testing of asphalt materials to determine their material properties and their compliance with project plans and specifications.
- (f) The ENGINEER will be responsible for concrete batching as well as the asphalt testing at the plants to insure delivery of acceptable material to the job site.
- (g) Any additional laboratory testing as required/requested by the LPA and the project plans and specifications.
- (h) Providing accurate and timely reports to the LPA and all/other recipients as designated by the LPA.
- (i) The ENGINEER will verify the concrete and asphalt designs to assure it is in accordance with TxDOT specifications to be developed by the contractor.

EXHIBIT "B"  
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

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Services  
Provided By:  
ENGINEER    LPA

YES        NO

**PROJECT LOCAL LETTING** - The following is a list of work associated with locally letting the project. See attached **Texas Department of Transportation "Local Government Project Development & Delivery Check list"** (Pages 1-16).

**EXHIBIT "B"**  
**SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER**

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**Document and Information Exchange**

Data, Plan Sheets, General Notes and/or Specifications provided to the LPA 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 LPA.

If required, the ENGINEER shall provide to the LPA, a CD that contains all the plan sheets for the project. The graphics tape shall be compatible with the LPA'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>
Local Let Bid Documentation	Mission Office
Construction Management	Mission Office

The work effort will be managed out of the \_\_\_\_\_ Mercedes \_\_\_\_\_  
(City)  
office located at 2100 West Expressway 83 \_\_\_\_\_,  
(Address)  
Mercedes \_\_\_\_\_, Texas \_\_\_\_\_.  
(City) (State)

**EXHIBIT “B”**  
**SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER**

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**APPENDIX A - PLAN SHEET SEQUENCE PROCEDURE**

1. Title Sheet  
Detailed Index of Sheets
2. Typical Sections
3. General Notes and Specifications Data
4. Estimate and Quantity Sheets
5. Storm Water Pollution Prevention Plan (SW3P) Sheets
6. Traffic Control Plans
  - a. Sequence of Construction Layouts
  - b. Detour Plan/Profile/Typical Sections/Quantities
7. Roadway Layouts
  - a. Roadway Plan/Profile Sheets
  - b. Intersection Plan/Profile Sheets
  - c. Intersection Layouts
  - d. Alignment Layouts/Data
  - e. Ramp Layouts/Profiles
  - f. Connection Roads/U-turns Layouts/Profile
8. Roadway Details
  - a. Concrete Pavement Details/Standards
  - b. Concrete Pavement Terminal Anchorage Details/Standards
  - c. Bridge Approach Details/Standards
  - d. Bridge Terminal Anchorage Details/Standards
  - e. Roadway/Median Barrier Details/Standards
  - f. Curb Details
  - g. Driveway Details/Typical Sections/Standards
9. Signing Layouts and Marking Layouts
10. Traffic Signal Layouts
11. Lighting Layouts
12. Illumination Detail Standards (HMID, HMIF, HMIP, RID)
13. Utility Layouts/Profiles
14. Drainage Area Maps and Hydraulic Data
  - a. General Drainage Area Maps
  - b. Stage-Discharge Curves
  - c. Main Cross-Drainage Culvert/Bridge Hydraulic Data
  - d. Drainage Area Maps/Culverts/Storm Sewer
  - e. Hydraulic Data/Culverts/Inlets/Storm Sewer/Pumps
15. Detailed Drainage Plans
  - a. Drainage Plan/Profile Sheets (Storm Sewer Plan/Profile Sheets)
  - b. Channel Plan/Profiles/Typical Sections
  - c. Box Culvert Plan/Profile
  - d. Pipe Sewer/Culvert Cross Sections

**EXHIBIT “B”**  
**SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER**

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**APPENDIX A - PLAN SHEET SEQUENCE PROCEDURE (Continued)**

16. Drainage Structural Details/Standards
  - a. Inlet Details/Standards
  - b. Manhole Details/Standards
  - c. Junction Box Details/Standards
  - d. Safety End Treatment Details/Standards
  - e. Box Culvert Details/Standards
  - f. Culvert Wingwall Details/Standards
  - g. Excavation-Backfill Diaphragms
  - h. Riprap Details/Standards
  - i. Temporary Pollution and Erosion Control Details
  
17. Pumphouse Layouts
  
18. Pumphouse Details
  
19. Pumphouse Standard Details
  
20. Bridge Layouts/Profile/Typical Sections\*
  
21. Bridge Details\*
  - a. Summary of Bridge Quantities
  - b. Abutments
  - c. Interior Bents
  - d. Spans
  - e. Special details for the specific bridge
  
22. Bridge Standard Details\*
  
23. Bridge Railing Standards
  
24. Retaining Wall Layouts/Profiles\*\*
  
25. Retaining Wall Details\*\*
  
26. Retaining Wall Standard Details\*\*
  
27. Guard Fence/Standards and Signal Pole Standards
  
28. Signal/Electrical Details/Standards and Signal Pole Standards
  
29. Signing/Markers/Striping Details/Standards
  
30. Barricade/Construction/Beacon Standards
  
31. Miscellaneous Standards
  - a. Chain Link Fence Standards
  - b. Bridge End Detail/Standards
  - c. Roadway Clearance Details/Standards
  - e. Attenuator Standards

**NOTE:** Variations of these plan sheet sequence guidelines may be permitted if approved in writing by the LPA.

# EXHIBIT "B"

## SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

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### APPENDIX B - PLAN PREPARATION PROCEDURES

1. Title Sheet  
The ENGINEER shall be responsible for completing the title sheet as required and formatted by the STATE and as discussed in Part V of the Highway Design, Operations and Procedures Manual. Refer to Section K - Plans, 1 - Title Sheets, page 5-24, for the procedure to be used regarding all plans prepared by the ENGINEER.
2. Project Layout  
The project layout shall clearly depict the entire project as it is proposed and will usually be drawn at a scale of 1 inch=100 feet or 1 inch=200 feet, depending on the size of the project.
3. Typical Sections  
See Part IV of the Highway Design, Operations and Procedures Manual.
4. Sequence of Work Sheets (Traffic Control Plan)  
Clarity and completeness should be the rule to follow in preparing these sheets, with particular attention given to location of construction signs and barricades, lane widths, protection of drop offs, etc. For a reference guide use the Texas Department of Transportation, Texas Manual on Uniform Traffic Control Devices. Usual scale of 1 inch=100 feet and/or 1 inch=50 feet for special locations. A narrative sequence shall be included in the special provisions for the project. Staging of structural elements shall be considered. Provisions for drainage shall be considered, included and indicated during all stages of construction operations.
5. Removal Item Sheets  
These sheets indicate removal of existing facilities necessary to the proposed construction. (1 inch=40 feet) (use same scale as plan/profile sheets).
6. Summary Sheets  
Summary Sheets are required to indicate type, quantity and/or location of work for individual items of the proposed project.
7. Alignment Layout Sheets  
These sheets indicate the horizontal alignment with curve data and coordinates usually tabulated thereon. On some projects, depending on size, this information may be included on the plan profile sheets. Usual scale (1 inch=100 feet) or (1 inch=40 feet).
8. Plan Profile Sheet  
Clarity and completeness should be the rule to follow in preparation of these sheets. Usual scale (1 inch=40 feet or 1 inch=50 feet) or (1 inch=20 feet), depending on project complexity.
9. Drainage Area Maps  
Usual scale (1 inch=100 feet) and/or (1 inch=200 feet) supplemented by large scale area maps as necessary.
10. Drainage Plan Profile Sheets  
These sheets may be required on some projects to clearly depict location of inlets, storm sewer lines, and profile of storm sewer lines and laterals. Usual scale (1 inch=40 feet or 1 inch=50 feet) or (1 inch=20 feet). Storm sewer design does include redesign of storm sewers imposed by utility constraints developing after initial reviews by the STATE and consequential redesign and adjustments.
11. Runoff, Inlet, Storm Sewer and Culvert Sheets  
Use standard sheets.

EXHIBIT "B"  
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

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**APPENDIX B - PLAN PREPARATION PROCEDURES (Continued)**

12. Culvert Cross Sections and Details  
District standard reproducible sheets can be furnished (one each) to the ENGINEER for modification of special designs.
13. Manhole and Inlet Details  
District standard reproducible sheets can be furnished (one each) to the ENGINEER.
14. Miscellaneous Detail  
Curb, Sidewalk, Driveways, etc.
15. Intersection Details
16. Marking Layouts and/or Details  
Layouts of the entire project with markings depicted thereon. Usual scale 1:500 (1 inch=40 feet or 1 inch=50 feet). On some projects typical details might suffice.
17. Structural Details  
Bridge layout sheets shall have the same horizontal and vertical scale. Usually (1 inch = 10 feet) (1 inch = 20 feet). Sections of existing and proposed structures usually have a scale of (1 inch = 5 feet). Elements of the bridge (abutments, bents, slabs, etc.) shall be detailed to a (1/2 inch = 1 foot) or (1/4 inch equals 1 foot) architect scale to provide clear legible drawings when reduced. Letters shall be a minimum size of 4 millimeters (5/32 inch) height for hand lettering and 140 for lettering by computer-aided design and drafting (CADD).
18. Overhead Sign Bridge Layouts  
A maximum of four structures may be shown on each layout sheet. The reference to the appropriate overhead sign bridge (OSB) standard and the following requirements shall be shown on the layout:
  - (1) Drilled shaft size and length
  - (2) Soil strength used for design {indicate basis and boring(s) used}
  - (3) Design height
  - (4) Tower height
  - (5) Leg spacings and
  - (6) Design wind speed.

The wind speed design map need not be included in the project plans. Designation of tower member size and anchor bolt size shall not be shown. For OSBs which require special design, the design shall be in accordance with the AASHTO sign specifications (see Item 22 of References on page 49) and to the same loading requirements as for normal standard structures. Structures (special or standard) which will have changeable message signs shall be analyzed by the ENGINEER.

EXHIBIT "B"  
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

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**APPENDIX C - GENERAL PLAN CHECKLIST**

Services  
Provided By:  
ENGINEER LPA

___	___	Title Sheet
___	___	Project Layout
___	___	Sequence of Work
___	___	Detour Layouts & Profiles
___	___	Construction Pavement Markings
___	___	Signing & Barricades
___	___	Construction Sign & Beacons
___	___	Typical Sections
___	___	Shaping & Finishing Sections
___	___	Slopes Adjacent to Shoulders
___	___	Estimate & Quantities
___	___	General Notes & Specification Data
___	___	Grading Summary
___	___	Miscellaneous Summaries (See following "SUMMARIES" heading)
___	___	Horizontal Curve Data & Alignment Layouts
___	___	Drainage Summaries
___	___	Structure Summaries
___	___	Erosion Control Summary & Details
___	___	Plan/Profile Sheets
___	___	Erosion Control Summary & Details
___	___	Pavement Contours
___	___	Superelevation Transition (If Required)
___	___	Grading Contours
___	___	Guard Fence Layouts
___	___	Storm Water Pollution Prevention Plans (SW3P)
___	___	Drainage Area Maps
___	___	Hydraulic Data
___	___	Drainage Sheets
___	___	Bridge Hydrology Sheets
___	___	Inlet & Manhole Details
___	___	Utility Support Details
___	___	Culvert Cross Sections & Details
___	___	Special Culvert Designs
___	___	Special Drainage Details
___	___	Chain Link Fence Locations
___	___	Ramp Details Sheet
___	___	Removal Item Sheet - Including detours (Shown in detour summary, No payment for removal; subsidiary to construction detours)
___	___	Pavement Details
___	___	Pavement Standard Modification for Concrete Shoulder
___	___	Concrete Pavement Continuously Reinforced (CPCR)
___	___	Concrete Pavement Contraction Design (CPCD)
___	___	Concrete Pavement Details - Jointed Reinforced (Steel Bars) (CPJR)
___	___	Bridge Approach Slab Details
___	___	Vehicle Attenuator Details
___	___	Miscellaneous Details
___	___	Wheelchair Ramps
___	___	Pavement Marking Details
___	___	Modified Standards
___	___	List of Standards
___	___	Permanent Signing Plans & Quantities

**EXHIBIT "B"**  
**SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER**

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**APPENDIX C - GENERAL PLAN CHECKLIST *(continued)***

Services  
 Provided By:  
ENGINEER LPA

- |     |     |                                                                             |
|-----|-----|-----------------------------------------------------------------------------|
| ___ | ___ | Permanent Lighting Plans, Quantities & Standards                            |
| ___ | ___ | Bridge Layout(s)                                                            |
| ___ | ___ | Bridge Details                                                              |
| ___ | ___ | Retaining Wall Layout(s)                                                    |
| ___ | ___ | Retaining Wall Details                                                      |
| ___ | ___ | Pumphouse Details                                                           |
| ___ | ___ | Underdrain Details (Retaining Walls)                                        |
| ___ | ___ | Culvert Standards                                                           |
| ___ | ___ | Soil Profile                                                                |
| ___ | ___ | Temporary Traffic Signals                                                   |
| ___ | ___ | Design Cross Sections                                                       |
| ___ | ___ | Estimate                                                                    |
| ___ | ___ | List of Standard Specification, Special Provisions & Special Specifications |
| ___ | ___ | Detour Special Provisions (If Required)                                     |
| ___ | ___ | Construction Time Estimate                                                  |
| ___ | ___ | Critical Path Method (CPM)                                                  |
| ___ | ___ | Unit Price Documentation                                                    |

**Miscellaneous**

- |     |     |                             |
|-----|-----|-----------------------------|
| ___ | ___ | Conduit Requirements        |
| ___ | ___ | Traffic signal Requirements |

**Summaries**

**(ALL BELOW YES FOR ENGINEER AND NO FOR LPA UNLESS NOTED OTHERWISE)**

- |     |     |                                                     |
|-----|-----|-----------------------------------------------------|
| ___ | ___ | Salvaging and Placing Topsoil                       |
| ___ | ___ | Prepare ROW                                         |
| ___ | ___ | Remove Old Structures                               |
| ___ | ___ | Scarify Existing Pavement                           |
| ___ | ___ | Remove Old Concrete Curb of Curb and Gutter (C&G)   |
| ___ | ___ | Remove Old Concrete Pavement                        |
| ___ | ___ | Remove Old Concrete Riprap                          |
| ___ | ___ | Remove Metal Beam Guard Fence                       |
| ___ | ___ | Galvanized steel Beam Guard Fence (12Ga) (GSBGF)    |
| ___ | ___ | Temporary Guard Fence (TEMPGF)                      |
| ___ | ___ | Summary of Concrete Flumes                          |
| ___ | ___ | Curbs                                               |
| ___ | ___ | Adjust Manholes & Inlets                            |
| ___ | ___ | Underdrains                                         |
| ___ | ___ | Base and Pavement                                   |
| ___ | ___ | Large Structure                                     |
| ___ | ___ | Concrete Riprap (RR8 & RR9)                         |
| ___ | ___ | Temporary Portable Concrete Barrier (PCBR)          |
| ___ | ___ | Concrete Traffic Barrier                            |
| ___ | ___ | Vehicle Attenuator                                  |
| ___ | ___ | Guard Rail Energy Absorbing Terminal (Great System) |
| ___ | ___ | Pavement Markings & Blast Cleaning (Thermoplastic)  |
| ___ | ___ | Retaining Walls                                     |
| ___ | ___ | Large Structure Summaries                           |
| ___ | ___ | Small Structure Summaries                           |

EXHIBIT "B"  
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

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**APPENDIX C - GENERAL PLAN CHECKLIST *(continued)***

Services  
Provided By:  
ENGINEER LPA

**Summaries**                      **(ALL BELOW YES FOR ENGINEER AND NO FOR LPA UNLESS NOTED OTHERWISE)**

- |     |     |                                                             |
|-----|-----|-------------------------------------------------------------|
| ___ | ___ | Earthwork (Roadway & Channel) & Channel Details             |
| ___ | ___ | Culverts                                                    |
| ___ | ___ | Detours                                                     |
| ___ | ___ | Seeding or Mulch Sod - Quantity Only                        |
| ___ | ___ | Inlet & Manholes                                            |
| ___ | ___ | Sidewalks                                                   |
| ___ | ___ | Construction Pavement Markings                              |
| ___ | ___ | Driveways                                                   |
| ___ | ___ | Concrete Median                                             |
| ___ | ___ | Storm Sewers                                                |
| ___ | ___ | Head Walls & Safety End Treatments                          |
| ___ | ___ | Curb Openings                                               |
| ___ | ___ | Manholes                                                    |
| ___ | ___ | Chain Link Fence, Remove & Replace Chain Link Fence         |
| ___ | ___ | Remove & Relay Reinforced Concrete Pipe (RCP) or Pipe Sewer |

## Exhibit "C" Work Schedule

### Nolana Loop Road Project FM 1426 (Raul Longoria) to Alamo Rd (FM 907)

TASK AND DESCRIPTION	FIRM	2024												2025											
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
<u>Const Oversight</u>																									
Let Project	L&G																								
Construction Duration (est 18 months)	L&G																								

L&G FUNCTION

**EXHIBIT D  
FEE SCHEDULE**

**Nolana Loop Project - WA #4  
Segment 1 ~ FM1426 (Raul Longoria Rd.) to FM907 (Alamo Rd.)  
HIDALGO COUNTY PRECINCT #2**

		MANHOURS					Total Line Item Cost
		Senior Project Manager	Senior Engineer	Project Engineer	Admin / Clerical	L&G TOTAL HOURS	
<b>FY2018 CONTRACT RATE</b>		\$ 204.04	\$ 169.06	\$ 131.17	\$ 58.30		
<b>WA #4 - Nolana Loop Project (Phase IV) ~ Construction Oversight</b>							
164	Bid Document Preparation (Local Let) & Finalize Coordination w/TxDOT	160	380	460	120	1120	\$ 164,223.40
320	Eng. Construction Management (24 Months)	180	420	560	80	1240	\$ 185,851.60
<b>TOTAL HOURS</b>		<b>340</b>	<b>800</b>	<b>1020</b>	<b>200</b>	<b>2360</b>	\$ 350,075.00

Sub-Total Man-hours Fee: **\$ 350,075.00**

**TOTAL PROJECT FEE: \$ 350,075.00**