

HIDALGO COUNTY
Professional Engineering Services
Agreement # C-21-0697-09-25

WORK AUTHORIZATION NO. 2

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of the **Professional Engineering Services** Agreement No. C-21-0697-09-25 incorporated herein by reference, for the “Mile 1 East Project (Business 83 N to Mile 8)” by and between **HIDALGO COUNTY**, action herein by and through the **Commissioner’s Court**, hereinafter called the “**Owner**,” and L&G Consulting Engineers, 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 continuation of the Plans, Specification, Estimates, Right-of-Way Acquisition Services for roadway outfalls and Compensable Utilities as well as coordination with the railroad for the roadway design.

The scope of services to be provided by the **Owner** is identified in **EXHIBIT “A”** – Services to be provided by the County.

The **Engineer** is to provide the scope of Services as required by the Agreement with Owner and is identified as **EXHIBIT “B”** – “Scope of Services to be provided by the Engineer.”

PART 2. ESTIMATED COST

The estimated cost for services under this Work Authorization is \$962,569.08. This amount is based upon the costs outlined in the – **EXHIBIT “D-1”** – *Estimated Man-Hour Breakdown*” attached hereto and incorporated by reference.

PART 3. PAYMENT

Compensation and payment to the Engineer for the services established under this Work Authorization shall be made in accordance with the **Professional Engineering Services** Agreement No. C-21-0697-09-25 between the **Owner** and the **Engineer**.

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 the scopes of the Work Authorization, within the limits of Agreement No. C-21-0697-09-25 provided in this Work Authorization; or on (DATE: _____). *If applicable:* Engineer shall conform to the approved “Work/Project Schedule”, attached hereto and incorporated by reference herein as **EXHIBIT “C”**.

PART 6. RESPONSIBILITIES AND OBLIGATIONS

This Authorization does not waive the parties' responsibilities and obligations provided under the Agreement No. C-21-0697-09-25

PART 7. ACKNOWLEDGEMENT AND CONFIRMATION

Acknowledgement and confirmation by Hidalgo County Precinct No. 1 Commissioner David L. Fuentes, as to 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 and effective as of _____ day of _____, 2024.

THE ENGINEER:
L&G CONSULTING ENGINEERS,

THE OWNER:
HIDALGO COUNTY

By:  _____
By: Jacinto Garza, P.E.

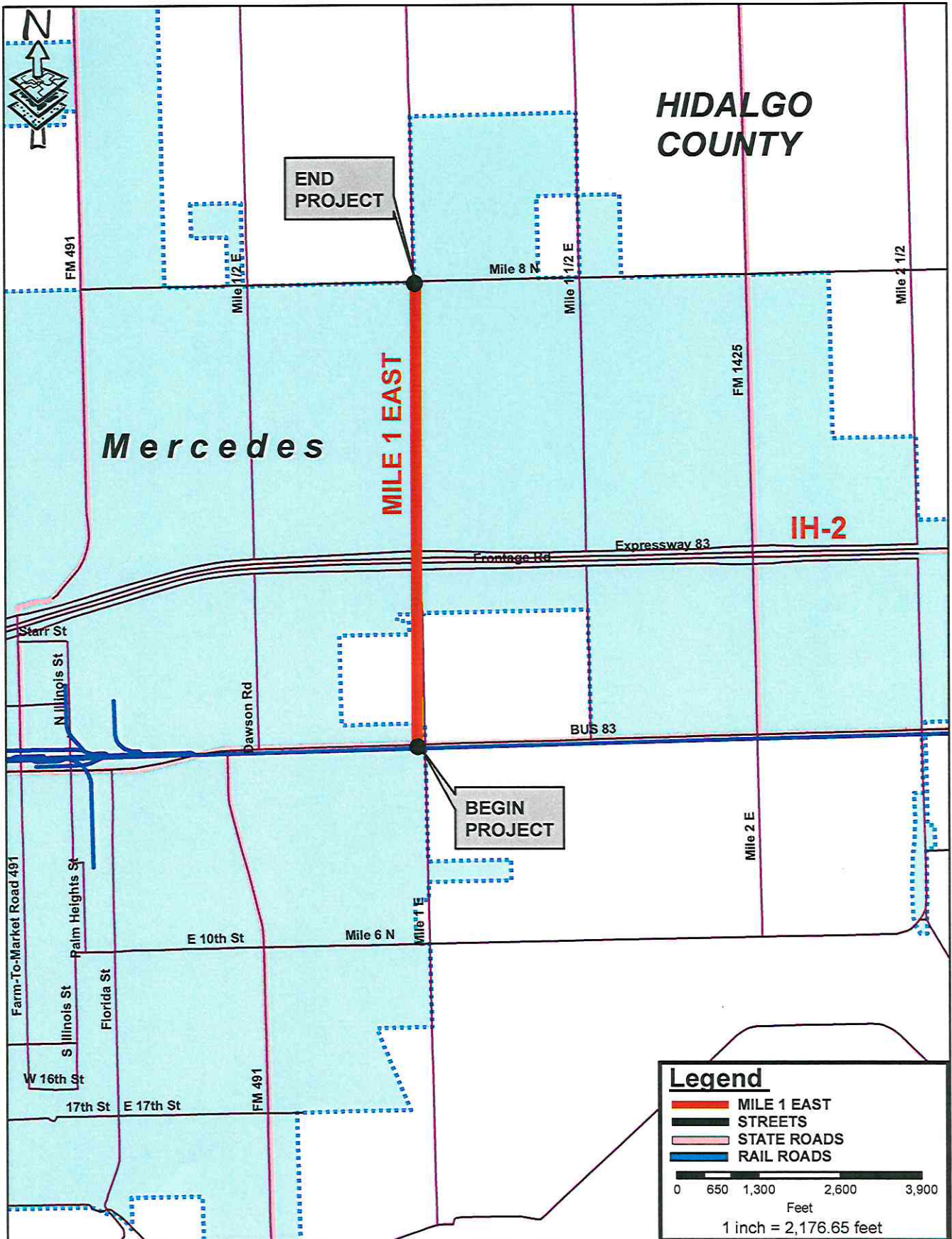
By: _____
By: Richard F. Cortez, County Judge

ATTEST:

By: _____
By: Arturo Guajardo Jr., County Clerk

LIST OF ATTACHMENTS:

- LOCATION MAP
- EXHIBIT "A" – Services to be provided by the Owner
- EXHIBIT "B" – Project Specific Scope of Services to be provided by Engineer
- EXHIBIT "C" – Work/Project Schedule
- EXHIBIT "D-1" – Man-Hour Breakdown



**MILE 1 EAST
LOCATION MAP
FROM BUS 83 TO MILE 8 NORTH
LENGTH 1.4 MILES**



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 copies of all subdivision plats of record and/or in the subdivision process as well as provide any utility permits issued by the County.
3. 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.
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

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: CSJ: 0921-02-254

PROJECT/DESCRIPTION: PS&E, ROW Acquisition, Rail Road Coordination

LENGTH: 1.4 Miles

HIGHWAY: Mile 1

LIMITS: FROM BUS 83 TO Mile 8

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.

STATE shall mean Texas Department of Transportation.

LPA shall mean Local Public Agency Hidalgo County.

SURVEYOR shall mean Melden & Hunt.

Note: This Scope of work constitutes approximately 1/3 of the Engineering work required for the Project.

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

SECTION 7 - ROADWAY DESIGN CONTROLS
(Function Code 160)

Services
Provided By:
ENGINEER LPA

- | | | |
|------------|-----------|--|
| <u>YES</u> | <u>NO</u> | 1. Geometric Design |
| <u>NO</u> | <u>NO</u> | a. Horizontal and Vertical Alignment |
| | | b. Schematic Layout |
| | | (1) The location of interchanges, main lanes, grade separations, frontage roads and ramps. |
| | | (2) Develop vertical and horizontal alignment of main lanes, ramps and cross roads at proposed interchanges or grade separations. Frontage road alignment data need not be shown on the schematic; however, it should be developed in sufficient detail to determine ROW needs. The degree of horizontal curves and vertical curve data, including "K" values, shall also be shown for ease of checking. |
| | | (3) For freeways, show the location and text of the proposed main lane guide signs. Lane lines and/or arrows indicating the number of lanes shall also be shown. |
| | | (4) A complete explanation of the sequence and methods of stage construction, if proposed, including the initial and ultimate proposed treatment of crossovers and ramps. |
| | | (5) The tentative ROW limits. |
| | | (a) Provide a roadway Design System (RDS) or (GEOPAK) computer tape of the preliminary earthwork to verify ROW requirements. |
| | | (b) Provide a graphics file containing the approved schematic. |
| | | (6) The geometric (pavement cross slopes, lane and shoulder widths, slope rates for fills and cuts) of the typical sections of proposed highway main lanes, ramps, frontage roads, and cross roads. |
| | | (7) The current and projected traffic volumes as provided by the TxDOT (20 year traffic projection, unless otherwise determined by the District Engineer). |
| | | (8) The control of access lines if Interstate or designated under House Bill 179. |
| | | (9) Direction of traffic flow on all roadways. |
| | | (10) Location and width of median openings for highway without access control. |
| | | (11) The geometric of speed change (acceleration, deceleration, climbing) lanes. |
| <u>NO</u> | <u>NO</u> | 2. General Guidelines for Project Development |
| | | a. Prior to preparing detailed plans for a proposed project, a preliminary schematic layout shall be prepared which indicates the general geometric features and location requirements peculiar to the project. An uncontrolled aerial mosaic will be provided for this use. Four copies of the schematic layout shall be submitted through the district to the Design Division for approval and subsequent coordination with the Federal Highway Administration (FHWA) where applicable. The layout shall be submitted for two-lane arterial highway projects on new locations and for all multi-lane highway projects. No geometric design is to be performed until the COUNTY has given the engineer written approval of the preliminary schematic layout. |
| | | b. All geometric design shall be in conformance with the State's Design Division, Operations and Procedures Manual, except where variances are permitted in writing by the STATE. |
| | | c. The schematic layout shall include basic information which is necessary for the proper review and evaluation including the items listed above in the checklist for schematic layout. |
| | | d. Handling of traffic during construction shall be a consideration in the development of preliminary designs. |

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

Services
 Provided By:
ENGINEER LPA

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|------------|-----------|---|
| <u>NO</u> | <u>NO</u> | 2. General Guidelines for Project Development (<i>continued</i>) <ul style="list-style-type: none"> e. Upon approval of the schematic layout by Design Division (FHWA on Federal-aid projects), it shall be the basis for an exhibit at any required public hearing prior to final development of the project. If there are any changes to the schematic after the Design Division and FHWA approval and before the public hearing, four copies of the revised schematic, as displayed at the hearing, shall be submitted either prior to or accompanying the public hearing data. If there are no changes in the schematic as displayed at the hearing, only photographs of the schematic and other displays shall be submitted with the public hearing data. f. For all freeway construction projects, these schematics shall show the location and text of the proposed main lane guide signs. A schematic layout shall be submitted through the district to the Traffic Operations Division, Traffic Safety Section for approval and subsequent coordination with the FHWA. All signing shall be in conformance with the Texas MUTCD. g. On complex projects, informal contact through the district with the Design Division and FHWA personnel is encouraged with regard to development of preliminary design prior to official schematic submission. h. The engineer shall furnish a project tape that is compatible with the STATE's computer system, a project listing, and a cross section plot showing the original design sections containing the earthwork input and original cross sections for the project. Accuracy of the earthwork design is of utmost importance since it is the basis for contractor payments and construction staking. |
| <u>NO</u> | <u>NO</u> | 3. Exhibit for Airway/Highway Clearance Permits |
| <u>YES</u> | <u>NO</u> | 4. Grading Design <ul style="list-style-type: none"> a. Refine the horizontal and vertical alignment of main lanes, frontage roads, ramps, cross roads and direct connectors based upon the approved schematic layout. Determine vertical clearances at grade separations and overpasses, taking into account the appropriate super elevation rate. b. Typical Sections c. Design Cross Sections d. Determine Cut and Fill Quantities e. Slope Stability Analysis f. Embankment Foundation Stability Analysis g. Embankment Settlement Analysis |
| <u>YES</u> | <u>NO</u> | |
| <u>YES</u> | <u>NO</u> | |
| <u>YES</u> | <u>NO</u> | |
| <u>YES</u> | <u>NO</u> | |
| <u>YES</u> | <u>NO</u> | |
| <u>NO</u> | <u>NO</u> | 5. Pavement Design <ul style="list-style-type: none"> a. Prior to initiating detailed plan preparations for a project, a preliminary investigation shall be made to determine the approximate section and pavement type to be used for the pavement structure. The Flexible Pavement Design Manual for flexible pavement, "Appendix F" of the Design Division, Operations and Procedures Manual, and the current AASHTO Guide for the Design of Pavement Structures, may be used for this purpose. b. The typical section shall also reflect proposed geometric including pavement cross slopes, lane and shoulder widths, and slope rates whenever this data have not been previously shown on a schematic submission. c. Embankment and Subgrade <ul style="list-style-type: none"> (1) Soil Core Holes (Show cost estimate with Function Code 110) <ul style="list-style-type: none"> (a) Along center line (b) Along center line of each roadway |
| <u>NO</u> | <u>NO</u> | |
| <u>NO</u> | <u>NO</u> | The location and minimum number of soil core holes required for this project are as follows: (To be determined when schematic is being completed) |

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

Services
Provided By:
ENGINEER LPA

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|-----------|-----------|---|
| <u>NO</u> | <u>NO</u> | 5. Pavement Design (<i>continued</i>) |
| | | c. Embankment and Subgrade (<i>continued</i>) |
| | | (2) Identify, interpret and summarize geologic features that affect engineering design
(PI, Sulfate content, % of lime) |
| <u>NO</u> | <u>NO</u> | d. Traffic Data for Pavement Design |
| <u>NO</u> | <u>NO</u> | e. Basic Design Criteria |
| <u>NO</u> | <u>NO</u> | f. Life Cycle Cost Analysis (es) |
| <u>NO</u> | <u>NO</u> | g. Cost Data |
| <u>NO</u> | <u>NO</u> | h. Pavement Material Properties |
| <u>NO</u> | <u>NO</u> | i. Rehabilitation Investigations |
| <u>NO</u> | <u>NO</u> | (1) Core Hole Survey (Show cost estimate with Function Code 110) |
| | | (a) Determine type and depth of existing material, pavement, etc. The Engineer
will determine whether to salvage ACP and FLEXBASE as well as their
properties and provide this information to Client. |

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

SECTION 8 - DRAINAGE
(Function Code 161)

Services
Provided By:
ENGINEER LPA

All hydraulic design shall be in accordance with the TxDOT's Hydraulic Manual, except where variances are permitted in writing by the LPA.

- | | |
|--|---|
| <u>YES</u> <u>NO</u>
<u>YES</u> <u>NO</u>
<u>YES</u> <u>NO</u> | 1. Hydrologic Studies, Discharges
a. Hydrologic Map showing drainage areas, contours and drainage Q's.
b. Drainage area maps showing existing conditions and proposed improvements.
c. Hydrologic data/discharge determination |
| <u>YES</u> <u>NO</u>
<u>YES</u> <u>NO</u>
<u>YES</u> <u>NO</u>
<u>YES</u> <u>NO</u>
<u>YES</u> <u>NO</u>
<u>YES</u> <u>NO</u>
<u>YES</u> <u>NO</u>
<u>YES</u> <u>NO</u>
<u>NO</u> <u>NO</u>
<u>NO</u> <u>NO</u>
<u>YES</u> <u>NO</u> | 2. Hydraulic Drainage Study and Documentation
a. Hydraulic computations
(1) Storm water detention available within the ROW (linear ft. along side drain ditch).
(2) Storm water detention required outside the ROW (as per HCDD#1)
(3) Culverts
(4) Bridge waterways
(5) Channels
(6) Storm sewers/inlets
(7) Pump stations
(8) Storm Water Management facilities
(9) Other
(a) Irrigation Canals/Siphons
b. Hydraulic report(s)
c. Federal Emergency Management Agency (FEMA) floodway requirements
d. Determine impact of proposed drainage plan on the following receiving stream(s)
(1) Hidalgo County Drainage District Outfalls
(2) All Irrigation District Outfalls impacted |
| <u>YES</u> <u>NO</u>
<u>YES</u> <u>NO</u>
<u>YES</u> <u>NO</u>
<u>YES</u> <u>NO</u>
<u>YES</u> <u>NO</u>
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<u>YES</u> <u>NO</u>
<u>NO</u> <u>NO</u>
<u>YES</u> <u>NO</u>
<u>YES</u> <u>NO</u>
<u>NO</u> <u>NO</u>
<u>YES</u> <u>NO</u>
<u>NO</u> <u>NO</u> | 3. Layout, Structural Design and Detailing of Drainage Features
a. Culverts
(1) New culverts
(2) Culvert widening and/or lengthening
(3) Culvert replacements
b. Storm sewers
(1) New storm sewers
(2) Modify existing storm sewers
(3) Inlets
(4) Manholes
(5) Trunk lines
c. Pump stations
d. Subsurface drainage at retaining walls
e. Outfall channel(s) within the ROW
f. Outfall channel(s) outside the ROW
g. Detention Pond(s) within the ROW
h. Detention Pond(s) outside the ROW
i. Summary of Quantities
j. Storm Water Management facilities |
| <u>YES</u> <u>NO</u>
<u>NO</u> <u>NO</u> | 4. Storm Water Pollution Prevention Plan (SW3P) |
| <u>NO</u> <u>NO</u> | 5. Scour Evaluation - Waterway Structures only (to be completed by Bridge Engineer under FC 170. |

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

SECTION 9 - SIGNING, MARKINGS AND SIGNALIZATION

(Function Code 162)

Services
Provided By:
ENGINEER LPA

YES

NO

1. TRAFFIC ENGINEERING DESIGN FOR 50% OF THE WORK

ETSI will produce a complete set of Plans, Specifications and Cost Estimates (PS&E) that cover the following:

- Mile 1 East Road at BUS 83 (permanent and temporary signal design)
- Mile 1 East Road at IH 2 Frontage Roads (permanent signal design)
- Mile 1 East Road at Mile 8 North Road (flashing beacon design)
- Mile 1 East Road at UPRR crossing (Interconnected Highway-Rail Grade Crossing design)

○ **TASK 1 – General Notes for Traffic Signal Installation**

ETSI will prepare the general notes based on TxDOT's latest practices

○ **TASK 2 – Basis of Estimate**

ETSI will prepare Basis of Estimate sheet(s) with adequate number of columns to reflect the number of the above intersections and one column for the total quantities.

ETSI will calculate quantities at 90% and 100% levels of completion or as directed by L&G.

○ **TASK 3 – Condition Diagram**

ETSI will collect from various agencies the existing geometries for the above intersections. Information from these plans will be verified in the field and then incorporated into the condition diagram sheets.

ETSI will setup the condition diagram sheets that would show the existing configuration of each intersection, existing utilities and other elements in accordance with TxDOT design practices and as required by L&G. ETSI will show which items are to be removed and which to are to remain.

○ **TASK 4 – Proposed Signal/Flashing Beacon Plan Layout**

ETSI will setup proposed signal/flashing beacon layout sheets that would show the proposed geometry of the above intersections along with the basic elements of the signal design, such as location of signal poles, pedestrian poles, wheel chair ramps, cross walks and service pole locations, in accordance with TxDOT Signal Design practices and as required by L&G.

The proposed layouts will also show existing equipment to remain, existing equipment to be removed and proposed new equipment to be installed by the contractor.

ETSI with assistance from L&G Engineering will contact the local power company for electrical service requirements at each of the above intersections.

ETSI will produce submittals for Client's review at the 90% and 100% completion levels or as directed by L&G.

○ **TASK 5 – Signal Phasing and Timing**

ETSI will develop optimal phasing and timing chart for the signalized intersections. The chart will be presented to TxDOT for review and approval before incorporation into the plan sheets.

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

Services
Provided By:
ENGINEER LPA

○ **TASK 6 – Electrical Schedules**

ETSI will prepare tables, depicting the electrical schedule for the wiring connections at each intersection.

○ **TASK 7 – Intersection Signing, Pavement Markings and Curb Ramps**

While working on the proposed layouts, ETSI will also locate the cross walks and stop bars at the intersections, as they affect the signal design and furnish this information to L&G. Curb ramps and cross walks will conform to current US Access Board's Proposed Accessibility Guidelines as well as ADA standards.

ETSI will produce submittals for Client's review at the 90% and 100% completion levels.

○ **TASK 8 – Standard Sheets List**

ETSI will prepare a list of standard sheets for the 90% and 100% submittals.

ETSI will also prepare the drill shaft tables on the TSFD standard sheet as well as the shipping parts list on the SP/SMA standard sheet.

○ **TASK 9 – Specifications List and Cost Estimate**

ETSI will prepare a list with all pertinent specifications and special provisions as they relate to the above tasks. ETSI will also prepare cost estimates using Pharr District's average bid values at the 90% and 100% submittals.

○ **TASK 10 – Coordination and Meetings**

ETSI will participate in one or more project progress meetings as requested by L&G.

○ **TASK 11 – Temporary Traffic Signal Design:**

- Mile 1 East Road at BUS 83

ETSI will setup temporary signal layouts that will show the existing and proposed geometry at the signalized intersection along with the area under construction and the traffic paths for each construction phase. Signal heads will be properly repositioned over the traveled lanes to accommodate each phase of construction. Two construction phases are anticipated for the construction of Mile 1 East Road. Existing and proposed equipment will be used to minimize conflicts between traffic and construction area.

Electrical schedules would be provided for the temporary signals as needed. ETSI will prepare tables, depicting the electrical wiring connections for each phase of construction as needed.

Quantities summaries for temporary equipment for each construction phase will be prepared along with appropriate notes and a construction cost estimate.

○ **TASK 12 - Interconnected Highway-Rail Grade Crossing design**

ETSI will provide the required RR exhibits with all design elements for a interconnected Highway-Rail Grade Crossing. This will include preparation of TxDOT Preemption form 2304 with time requirements to meet RR requirements, field meetings with TxDOT and RR representatives to discuss crossing requirements for vehicular traffic as well as pedestrian traffic if warranted. New planking surfaces will be provided along with crossing gates, flashing warning lights and bells. Pedestrian sidewalks will be accommodated across the tracks as well to provide contiguous path.

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

SECTION 10 - MISCELLANEOUS (ROADWAY)
(Function Code 163)

Services
Provided By:
ENGINEER LPA

- | | | |
|------------|------------|---|
| | | 1. Retaining Walls |
| | | a. Structural Details |
| <u>N/A</u> | <u>N/A</u> | (1) Cast-in-Place Cantilever at ____ locations. (TxDOT Standard Retaining Wall)* |
| <u>N/A</u> | <u>N/A</u> | (2) Tiedback Retaining Wall at ____ location. (TxDOT standard retaining wall) |
| <u>N/A</u> | <u>N/A</u> | (3) Specialized Retaining Wall at ____ locations (Unique Design).* |
| | | b. Alternate Patented Retaining Walls at all locations. (Layouts Only)** |
| <u>N/A</u> | <u>N/A</u> | (1) Mechanically Stabilized Earth |
| <u>N/A</u> | <u>N/A</u> | (2) Concrete Block Wall Systems |
| <u>N/A</u> | <u>N/A</u> | c. Retaining Wall Layout (PLAN) |
| | | (1) Designation of reference line |
| | | (2) Beginning and ending retaining wall stations |
| | | (3) Station of each retaining wall joint*** |
| | | (4) Offset from reference line |
| | | (5) Horizontal curve data |
| | | (6) Number of retaining wall panels and lengths*** |
| | | (7) Total length of wall |
| | | (8) Indicate face of wall |
| | | (9) All wall dimensions and alignment relations (alignment data as necessary) |
| | | (10) Soil core hole locations |
| <u>N/A</u> | <u>N/A</u> | d. Retaining Wall Layout (ELEVATION) |
| | | (1) Top of wall elevations at each joint or intervals*** |
| | | (2) Existing and finished ground line elevations |
| | | (3) Height of stem at each joint*** |
| | | (4) Wall panel designations*** |
| | | (5) Top of footing elevations*** |
| | | (6) Limits of measurement for payment**** |
| | | (7) Type, limits and anchorage details of railing (If applicable) |
| | | (8) Top and bottom of wall profiles and soil core hole data plotted at correct station and elevation. The plot shall be at the same scale as the wall profile. Ground water elevations and the observation date shall be shown. |
| <u>N/A</u> | <u>N/A</u> | e. Foundation Studies (Show cost estimate with Function Code 110) |
| <u>N/A</u> | <u>N/A</u> | (1) The soil core holes shall be obtained at approximately 200 foot intervals along retaining wall alignments. The core holes shall extend 25 feet below the footing elevation. |
| <u>N/A</u> | <u>N/A</u> | f. Stability Analysis (the ENGINEER shall estimate this task as part of his bid to complete the work). |
| <u>N/A</u> | <u>N/A</u> | g. Estimate |
| <u>N/A</u> | <u>N/A</u> | h. Summary of Quantities |
| <u>N/A</u> | <u>N/A</u> | i. Typical X-section. |
| <u>N/A</u> | <u>N/A</u> | j. General Guidelines for Retaining Walls |
| | | (1) The ENGINEER shall make final design calculations and final detail drawings in accordance with standard requirements of the Texas Department of Transportation. The designer and checker shall check all calculations and initial each page. |
| | | (2) The ground water level should be observed at the water strike. |
| | | (3) For purposes of uniformity statewide, soil core hole data shall be shown on layouts as illustrated in the Bridges and Structures Foundation Exploration and Design Manual. |
| | | (4) Foundation exploration shall conform to the requirements set forth in Administrative Circular No. 25-84, Administrative Circular 33-87 and Administrative Circular No. 25-92. |

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

Services
 Provided By:
ENGINEER LPA
YES NO

2. Traffic Control Plan, Detours and Sequence of Construction
 Traffic Control Plans (TCP) are required for all projects. A detailed TCP shall be developed when traffic handling during construction involves complications for which a feasible solution is not covered by the Texas MUTCD or the current Barricade and Construction (BC) Standards. The following items are required on all Traffic Control Plan Layouts:
- a. The sequence of construction and method of handling traffic during each phase.
 - b. The existing and proposed traffic control devices that will be used to handle traffic during each construction sequence. Include signals, regulatory signs, warning signs, construction warning signs, guide signs, route markers, construction pavement markings, channelizing devices, portable changeable message signs, flashing arrow boards, barricades, barriers, etc.
 - c. The proposed traffic control devices (stop signs, signals, flag person, etc.) at grade intersections during each construction sequence.
 - d. Where detours are provided, typical cross sections shall be shown.
 - e. Road construction work hours shall be developed after an investigation of the traffic volumes has been performed.

NO NO

3. Illumination
- a. Preliminary Roadway Illumination Layout and Circuit Layout
 - (1) For projects involving freeway to freeway or other types of directional interchanges and projects including left-hand ramps or connections, provide the following:
 - (a) The location of interchanges, main lanes, grade separations, frontage roads and ramps
 - (b) A complete explanation of the sequence and methods of stage construction, where applicable, which would include the initial and ultimate proposed treatment of crossovers and ramps
 - (c) The number of lanes in each section of proposed highway and the location of changes in the number of lanes
 - (d) The projected traffic volumes as provided by the STATE (20 year traffic projection unless otherwise determined by the district engineer)
 - (e) Tentative ROW limits
 - (f) Direction of traffic flow on all roadways
 - (g) Main lane, ramp, frontage road, and necessary cross road profiles at proposed interchanges or grade separations

NO NO

- b. Final Roadway Illumination and Electrical Circuit Layouts
 - (1) Roadway layout showing pavement edges, shoulders, curbs, retaining walls, etc.
 - (2) Center line with station numbering.
 - (3) ROW lines.
 - (4) Symbol legend. Use department standard symbols for lighting and electrical.
 - (5) Culverts and other structures that present a hazard to traffic.
 - (6) Location of underground utilities, if not shown on plan profile.
 - (7) Location of overhead electrical lines, both crossing and parallel to ROW.
 - (8) Existing sign lighting circuits and roadway illumination to remain, to be removed, to be relocated.
 - (9) Existing service poles, electrical circuits, ground boxes, etc.
 - (10) Contact electric utility for service pole locations, voltage characteristics.
 - (11) Location of proposed sign lighting circuits and roadway illumination.
 - (12) Proposed electrical circuits.
 - (13) Tabulation of all quantities including proposed, existing to be relocated, existing to be removed. The layout sheet quantities and lighting summary shall be shown. Tabulations to include estimated quantity with a column for final quantities.

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

Services Provided By:		
<u>ENGINEER</u>	<u>LPA</u>	
<u>NO</u>	<u>NO</u>	3. Illumination (<i>continued</i>) c. General Guidelines for Illumination (If applicable) The ENGINEER shall submit to the COUNTY, well in advance of PS&E due date, the roadway illumination and electrical circuit layout sheets for review by the STATE. Two copies of the layout sheets are to be submitted. One copy will be returned to the Engineer showing corrections that are to be made by the ENGINEER. When final plan submission is made, the ENGINEER shall provide a written statement regarding completion of the corrections.
<u>YES</u>	<u>NO</u>	4. Miscellaneous Drafting/Standards
<u>NO</u>	<u>NO</u>	a. Erosion Control b. Landscape Development
<u>YES</u>	<u>NO</u>	5. Compute and Tabulate Quantities
<u>YES</u>	<u>NO</u>	6. Special Utility Details (Irrigation lines)
<u>NO</u>	<u>NO</u>	7. Miscellaneous Structures
<u>NO</u>	<u>NO</u>	a. Type of Structure*
<u>NO</u>	<u>NO</u>	(1) Overhead Sign Bridges (O.S.B.) Modifications or special O.S.B. designs shall be prepared using the same design assumptions that are used for the standard O.S.B structures.
<u>NO</u>	<u>NO</u>	(a) New O.S.B. structure(s) (b) Structural evaluation of existing O.S.B. structure(s) that are to remain in place or to be relocated.
<u>NO</u>	<u>NO</u>	(2) High Mast Illumination Poles (HMIP)
<u>YES</u>	<u>NO</u>	(3) Traffic Signal Supports
<u>NO</u>	<u>NO</u>	(4) Conventional Illumination Poles
<u>NO</u>	<u>NO</u>	(5) Sound Barrier Walls
<u>NO</u>	<u>NO</u>	b. Checklist for Layouts
<u>YES</u>	<u>NO</u>	(1) Reference appropriate O.S.B. standard (2) Drilled shaft size and length (3) Soil strength used for design {indicate basis and boring(s) used} (4) Design height (5) Tower heights (6) Leg spacings (7) Design wind speed
<u>YES</u>	<u>NO</u>	c. Foundation Studies (Show cost estimate with Function Code 110) The soils exploration requirements for miscellaneous structures on this project are as follows: (To be provided by the Engineer on an as-needed basis)
<u>YES</u>	<u>NO</u>	8. Agreements
<u>YES</u>	<u>NO</u>	a. Utility Agreements
<u>YES</u>	<u>NO</u>	b. Exhibits for Utility Agreements
<u>YES</u>	<u>NO</u>	c. Railroad Agreements
<u>NO</u>	<u>NO</u>	d. Railroad Exhibits
<u>NO</u>	<u>NO</u>	(1) Railroad Underpasses
<u>YES</u>	<u>NO</u>	(2) Railroad Overpasses
<u>YES</u>	<u>NO</u>	(3) Railroad Grade Crossing (Replanking)
<u>YES</u>	<u>NO</u>	(4) Railroad Grade Crossing Warning Systems (Signals)
<u>YES</u>	<u>NO</u>	(5) Other Miscellaneous Sketches for Railroads
<u>NO</u>	<u>NO</u>	e. Traffic Signal Agreements
<u>YES</u>	<u>NO</u>	f. Exhibits for Traffic Signal Agreements
<u>YES</u>	<u>NO</u>	9. Estimate
<u>YES</u>	<u>NO</u>	10. Specifications and General Notes

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

SECTION 13 - FC 600 – ACQUISITION PROVIDER SERVICES
For Additional 10 Roadway Parcels and 5 Easements
 (Services to be provided by ENGINEER)

Services Provided By:		
<u>ENGINEER</u>	<u>LPA</u>	
<u>YES</u>	<u>NO</u>	1) PROJECT ADMINISTRATION
		a) Negotiation of Scope of Services for Work Authorization
		i) Acquisition Provider will visit project site with COUNTY personnel if necessary.
<u>YES</u>	<u>NO</u>	b) Project Presence at L&G Consultant Office Headquarters
		i) Full Project Office
		(1) No Joint Use of COUNTY or TxDOT facilities
		(2) Open during normal COUNTY and State work hours
		(3) Personnel available to answer questions
		(4) Availability of Project Files
		(5) At least one office staff member is required to be a current commissioned notary public.
<u>YES</u>	<u>NO</u>	c) Overhead Costs
		i) Administrative costs
<u>YES</u>	<u>NO</u>	d) Communication
		i) Provide monthly progress reports with invoice.
		ii) Participate in project review meetings as determined by the COUNTY.
		iii) Prepare initial property owner contact list for use by the COUNTY in distribution of Acquisition Provider introduction letters.
		iv) Prepare and Mail via Certified, Return Receipt Requested method, all introduction letters for each individual parcel.
<u>YES</u>	<u>NO</u>	e) File Management
		i) Project and parcel files will be kept in the COUNTY's Office, if necessary. Working files will be kept in the Acquisition Provider's project administrative office, but documents generated or received by the Acquisition Provider will be forwarded to the COUNTY office as they are generated or received by the Acquisition Provider, if necessary.
		ii) Prepare payment transmittal request utilizing standard payment submissions forms with supporting documentation.
		iii) Maintain records of all payments including check number, amount, and date paid, etc.
		iv) Provide copies of all incoming and outgoing correspondence as generated if requested by COUNTY at provider conference.
		v) Maintain copies of all correspondence and contacts with property owners.
		2) TITLE SERVICES
<u>YES</u>	<u>NO</u>	a) Secure preliminary title commitments from the Title Company that will be providing title insurance. Cost of preliminary title commitments will be paid by the Acquisition Provider (if requested by the title company) and will be included in the Acquisition Provider's scope of work for payment and paid as a separate item.
<u>YES</u>	<u>NO</u>	b) Secure title commitment updates in accordance with insurance rules and requirements for parcel payment submissions. Cost of title commitment updates will be paid by the Acquisition Provider (if requested by the title company) and will be included in the Acquisition Provider's scope of work and paid as a separate item.
<u>YES</u>	<u>NO</u>	c) Secure title insurance for all parcels acquired, insuring acceptable title to COUNTY OF HIDALGO. Written approval by the COUNTY required for any exception.

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

Services
 Provided By:
ENGINEER LPA

3) APPRAISAL

- | | | |
|------------|-----------|--|
| <u>YES</u> | <u>NO</u> | a) Appraiser may be selected from TxDOT's list of state approved fee appraisers. This list will be available for review at all District offices or at the Right of Way Division Office at 118 E. Riverside Drive, Austin, Texas, upon request. |
| <u>YES</u> | <u>NO</u> | b) Secure written permission (if necessary) from the owner to enter the property from which land is to be acquired. If the Acquisition Provider and/or the fee appraiser, after diligent effort, are unable to secure the necessary letter of permission from the property owner, a waiver must be obtained, in writing from the COUNTY/TxDOT. Maintain permission letters with appraisal reports. |
| <u>YES</u> | <u>NO</u> | c) Prepare (if necessary) pre-appraisal contact with interest owner(s) for each parcel using acceptable COUNTY/TxDOT forms. |
| <u>YES</u> | <u>NO</u> | d) Contact property owners or their designated representative to offer opportunity to accompany the appraiser on the appraiser's inspection of subject property. Maintain record of contact in file. |
| <u>YES</u> | <u>NO</u> | e) Prepare complete appraisal report for each parcel to be acquired utilizing TxDOT Forms No. ROW-A-5 and ROW-A-6 as applicable. These reports shall conform to TxDOT/COUNTY policies and procedures along with the Uniform Standards of Professional Appraisal Practices. |
| <u>YES</u> | <u>NO</u> | f) As necessary, prepare written notification to COUNTY/TxDOT of any environmental concerns associated with the right of way to be acquired which could require environmental remediation. |
| <u>YES</u> | <u>NO</u> | g) All completed appraisals will be administratively reviewed by L&G Engineering ROW Office and recommended for approval by TxDOT. |
| <u>YES</u> | <u>NO</u> | h) As necessary, the appraiser will appear and or testify as an Expert Witness in eminent domain proceedings and be available for pre-hearing /pre-trial meetings as directed by L&G Engineering and/or TxDOT. |
| <u>YES</u> | <u>NO</u> | i) As necessary, the appraiser will coordinate with review appraiser regarding revisions, comments, or additional information that may be required. |
| <u>YES</u> | <u>NO</u> | j) The cost of the appraiser appearing as an expert witness for testimony at special commissioners hearing must be included in the proposed fee schedule for the appraiser. The cost of the appraiser's expert witness testimony for trial is not part of this contract, and shall be paid by the COUNTY. |

4) APPRAISAL REVIEW

- | | | |
|------------|-----------|--|
| <u>YES</u> | <u>NO</u> | a) Review Appraiser may be selected from TxDOT's list of state approved fee appraisers. This list is available for viewing at all District offices or the Right of Way Division office at 118 E. Riverside Drive, Austin, Texas upon request. |
| <u>YES</u> | <u>NO</u> | b) Review all appraisal reports for each parcel to determine consistency of values, supporting documentation related to the conclusion reached and compliance with TxDOT/COUNTY policies and procedures and the Uniform Standards of Professional Appraisal Practices. |

EXHIBIT "B"

SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

<u>YES</u>	<u>NO</u>	
		c) Prepare and submit to TxDOT the Form ROW-RTA-10 "Tabulation of Values", for each appraisal.
Services Provided By:		
<u>ENGINEER</u>	<u>LPA</u>	
<u>YES</u>	<u>NO</u>	d) The cost of the review appraiser appearing as an expert witness for testimony at special commissioners hearing must be included in the proposed fee schedule for the review appraiser. The cost of the appraiser's expert witness testimony for trial is not part of this contract, and shall be paid by the COUNTY.
5) APPRAISAL UPDATES		
<u>YES</u>	<u>NO</u>	a) Prepare complete appraisal update for the parcel to be acquired utilizing TxDOT Form No. ROW-A-5. These reports shall conform to COUNTY/TxDOT policies and procedures along with the Uniform Standards of Professional Appraisal Practices.
<u>YES</u>	<u>NO</u>	b) As necessary, prepare written notification to COUNTY/TxDOT of any environmental concerns associated with the right of way to be acquired which could require environmental remediation. All completed appraisals will be administratively reviewed by L&G Engineering Right of Way Office and recommended for approval by TxDOT.
<u>YES</u>	<u>NO</u>	c) As necessary, the appraiser will appear or testify as an Expert Witness in eminent domain proceedings and be available for pre-hearing or pre-trial meetings as directed by the COUNTY/TxDOT.
<u>YES</u>	<u>NO</u>	d) The cost of the appraiser appearing as an expert witness for testimony at special commissioners hearing must be included in the proposed fee schedule for the appraiser. The cost of the appraiser's expert witness testimony for trial is not part of this contract, and shall be paid by the COUNTY.
<u>YES</u>	<u>NO</u>	e) As necessary, the appraiser will coordinate with the review appraiser regarding corrections and/or additional information that may be required.
6) NEGOTIATION, TASKS AND FEES		
<u>YES</u>	<u>NO</u>	a) Analyze appraisal and appraisal review reports and confirm the TxDOT's approved value prior to making offer for each parcel.
<u>YES</u>	<u>NO</u>	b) Analyze preliminary title report to determine potential title problems, propose methods to cure title deficiencies.
<u>YES</u>	<u>NO</u>	c) Prepare the initial offer letter, instruments of conveyance, and any other documents required or requested by COUNTY /TxDOT on applicable COUNTY /TxDOT forms.
<u>YES</u>	<u>NO</u>	d) Mail (Certified Mail Return Receipt Requested) initial offer letter, draft deed, Bill of Rights Brochures, Acknowledgement of Appraisal and Appraisal Reports to address confirmed with the Appraisal District of Hidalgo County. Maintain follow-up contacts and secure the necessary instruments upon acceptance of the offer for the closing.
<u>YES</u>	<u>NO</u>	e) Provide a copy of the appraisal report for the subject property exclusively to the property owner or authorized representative at mailing of initial offer. Maintain original signed Receipt of Appraisal. (unless property owner refuses to sign it).
<u>YES</u>	<u>NO</u>	f) Respond to property owner inquiries verbally and in writing within two business days.
<u>YES</u>	<u>NO</u>	g) Prepare a separate negotiator contact report for each parcel per contact.

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

Services
 Provided By:
ENGINEER LPA

- | | | |
|------------|-----------|---|
| <u>YES</u> | <u>NO</u> | h) Maintain parcel files of original documentation related to the purchase of the real property or property interests. |
| <u>YES</u> | <u>NO</u> | i) Advise property owner on the Administrative Settlement process. Transmit to TxDOT any written counter offer from property owners including supporting documentation, and provider recommendation with regard to Administrative Settlements in accordance with COUNTY /TxDOT policy and procedures. |
| <u>YES</u> | <u>NO</u> | j) Prepare final offer letter, documents of conveyance as necessary. |
| <u>YES</u> | <u>NO</u> | k) Appear and provide Expert Witness testimony as an Acquisition Provider when requested. |
| <u>YES</u> | <u>NO</u> | l) Meet at the L&G Engineering ROW office in Mission once per week as agreed-upon with the Right of Way Acquisition Manager/Administrator. |
| <u>YES</u> | <u>NO</u> | m) Provide a monthly progress report per parcel by the 25th of the month with invoice. |
| <u>YES</u> | <u>NO</u> | n) The consultant shall, as part of this proposal, estimate 20% of the parcels identified on Page 37 may result in condemnation. The consultant shall be available for any meeting/hearings as requested by the COUNTY Attorney. |
| | | 7) CLOSING SERVICE FEES |
| <u>YES</u> | <u>NO</u> | a) Coordinate with COUNTY and Title Company to obtain an updated title commitment along with other Forms and certified copy of the instrument of conveyance necessary when requesting the Parcel Payment from the COUNTY. |
| <u>YES</u> | <u>NO</u> | b) Acquisition Provider shall attend closings and provide closing services in conjunction with Title Company. |
| <u>YES</u> | <u>NO</u> | c) Acquisition Provider shall record all original instruments immediately after closing at the respective County Clerk's Office, except for donations which must be forwarded to TxDOT for acceptance by the Texas Transportation Commission. |
| | | 8) RELOCATION ASSISTANCE SERVICES (separate Work Authorization will be issued once relocations have been identified, unless noted otherwise). |
| <u>YES</u> | <u>NO</u> | a) The amount of relocations or displacements as identified. L&G will provide relocation advisory services. L&G will compute replacement housing supplements (owner occupant and/or tenants) |
| <u>YES</u> | <u>NO</u> | b) L&G will provide advisory services to business displacements and relocate them effectively. |
| <u>YES</u> | <u>NO</u> | c) TxDOT will review, approve and pay for all relocation costs as per the Agreement. |
| | | 9) CONDEMNATION SUPPORT |
| <u>YES</u> | <u>NO</u> | a) Pre-Hearing Support |
| | | i) Upon receipt of a copy of the final offer, request an updated title commitment for Eminent Domain from the Title Company. |
| | | ii) Prepare a Bisection Clause for the original set of Legal Descriptions supplied by Surveyor, if applicable. |

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

Services
Provided By:
ENGINEER LPA

- iii) Use the information from the Title Commitment to join all interested parties on the necessary forms. Spouses of owners must also be joined.

 - iv) Upon completion of the necessary forms, prepare a packet containing 2 copies each of the following documents: Title Commitment, Negotiator's Reports, Appraisal Acknowledgment, Preappraisal Contact Sheet, signed and sealed property description, and plat, Final Offer Letter, any correspondence from the land owner or representatives, along with one copy of the appraisal report. Submit packet to the COUNTY Office for submission to the COUNTY Attorney's office.
 - v) Upon receipt of concurrence for the Appraisal Witness, request the update of appraisal.
 - vi) Upon receipt of packet prepared by the COUNTY Attorney which will include Petition for Condemnation, Lis Pendens, Order Appointing Special Commissioners, Order Setting Hearing, Oath of Special Commissioner, and Notice of Hearings, developed by the COUNTY Attorney; the attorney shall file the original petition with the COUNTY Court at Law or other appropriate Court for a cause number to be assigned.
 - vii) The COUNTY attorney shall file the Lis Pendens including the cause number with the COUNTY Clerk's Office.
 - viii) Upon assignment of a court, the COUNTY Attorney shall file the Order Appointing Commissioners with the judge retaining a copy of the Order for the files.
 - ix) Following appointment of Special Commissioners by the judge, the COUNTY shall secure the following documents: Oath of Commissioners signed by the Commissioners, Order Setting Hearing, 2 copies of the Notice of Hearing signed by the Commissioners.
 - x) The COUNTY shall file all originals with the court and send copies marked "copy" to L & G Engineering.
 - xi) The COUNTY Attorney shall send a copy of the petition to the Title Company so that the Title Company can make sure the appropriate parties were joined and that no changes in title have occurred.
 - xii) The COUNTY Attorney shall set the Special Commissioners Hearing after the updated appraisal has been submitted, if there is no change in value. If there is an increase in value, COUNTY will approve the new value and the COUNTY's provider will present a revised offer and a final offer letter and submit a copy of the final offer letter.
 - xiii) The COUNTY Attorney shall coordinate a pre-hearing conference prior to the hearing (the day before or earlier) to discuss facts of the case with the COUNTY, Appraiser, and Negotiator.
 - xiv) After the hearing is set, the COUNTY Attorney shall serve Notices of Hearing to the indicated parties at least 11 days prior to the Commissioner's hearing. If it is necessary to join the Federal Government, be advised that they have an additional 60 days to prepare for the Hearing.
 - xv) Once the notices have been served, the COUNTY Attorney shall file the original notices with the court and send copies stamped "copy" to L&G Engineering ROW Office.

 - xvi) The COUNTY's Attorney shall send a reminder letter 2-3 weeks in advance to the COUNTY Administration offices, Acquisition Provider, the three special commissioners and court reporter concerning Hearing dates.
- YES NO
- b) Post Hearing Support (by COUNTY Attorney)
 - i) For the hearing, prepare the necessary forms and Special Commissioners time sheets and submit forms to Hidalgo COUNTY clerk's office.
 - ii) Obtain the signatures of Special Commissioners on the Award of Commissioners and file with the court for the judge's signatures within 48 hours of the Hearing.
 - iii) Give timesheets to Judge. The amount paid to the Special Commissioners is determined by the Judge.
 - iv) Obtain and distribute 3 certified copies of the award as follows: 1 certified copy to the title company with a request for a commitment, 1 certified copy to the COUNTY, 1 certified copy to L&G Engineering with the Commitment to request the warrant in the amount of the Special Commissioners Award.

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

Services
Provided By:
ENGINEER LPA

- v) Send the Commitment and the Award to COUNTY, along with individual special commissioner's billing requesting the payment for their fees.
- vi) File COUNTY warrant in the registry of the court. File a Notice of Deposit with the court and send certified copies to each defendant notifying them of the date of the deposit. The Date of Deposit is the Date of Take.
- vii) Take photograph of the interest to be acquired (if necessary) on the day of deposit for relocation verification.
- viii) Send written notices of the date of deposit to the COUNTY Administration office and all interested parties.
- ix) Appear as Expert Witness as requested. Sub-contractors must also appear as Expert Witnesses as requested.
- x) All acquisition negotiations file indicating all "due diligence" provided by the Acquisition Provider will be directed to the COUNTY Attorney's office for his further handling in accordance to the Eminent Domain process by the COUNTY.

10) COMPENSABLE UTILITIES

Utility Accommodation is an integral factor in road construction and design. Coordination of utility adjustments is a necessary function within planning, design, acquisition and construction and requires the administration of property rights issues, utility policy, and reimbursement of eligible utility adjustments. It includes the following tasks:

- | | | |
|------------|-----------|--|
| <u>YES</u> | <u>NO</u> | a) Preliminary Design Consultations <ul style="list-style-type: none">i) Conduct Field Investigation and review Certificate of Convenience and Necessity boundaries to identify utility providers within the project area. Communications through letter, phone calls and email to establish a contact list. Coordinate data gathering by surveyors and design team. Introduce project to utility providers. |
| <u>YES</u> | <u>NO</u> | b) Field Observations and Verifications <ul style="list-style-type: none">i) Provide maps to Utility providers to "redline" and identify conflicts. Coordinate exposures and data collection by surveyor. Provide and confirm utility data on project maps. Order Utility Location Service. |
| <u>YES</u> | <u>NO</u> | c) Exchange of Information with Utility Providers <ul style="list-style-type: none">i) Provide project schedule.ii) Request schedules for utility adjustments.iii) Identify who is responsible for utility process. |
| <u>YES</u> | <u>NO</u> | d) Confirmation of Property Interests <ul style="list-style-type: none">i) Request Documents.ii) Coordination of data on maps and citation of property interest documents.iii) Confirm utilities are within easements. |
| <u>YES</u> | <u>NO</u> | e) Coordination of Agreements <ul style="list-style-type: none">i) Identify utilities that are compensable.ii) Determine parties and agreements necessary to complete compensable process.iii) Coordinate execution and processing of Standard Utility Agreements. |
| <u>YES</u> | <u>NO</u> | f) Utility Meetings throughout project development <ul style="list-style-type: none">i) Set up and coordinate utility meetings during planning, design, acquisition and construction phases.ii) Attend and participate in meetings by other parties. |

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

Services
Provided By:
ENGINEER LPA

11) PAYMENT SCHEDULE

YES

NO

- a) Project Administration
 - i) Payment and Milestones
 - (a) Full Project Office
 - (1) Lump Sum Basis (assume 1 year project presence)
 - (2) Initial payment of 25% upon establishment of a project office with functional phone and utility services.
 - (3) Remainder paid out in equal monthly installments of 15% starting the following month.
 - (4) Monthly billing to COUNTY OF HIDALGO will be required.
- b) Title Services
 - ii) Payment
 - (a) Per Parcel basis.
 - iii) Milestones
 - (a) 100% upon securing initial title commitment.
- c) Appraisal Services
 - i) Payment
 - (a) Per Parcel Basis
 - ii) Milestones
 - (a) 100% paid upon delivery of complete and acceptable appraisal report
- d) Appraisal Review
 - i) Payment
 - (a) Per Parcel Basis
 - ii) Milestones
 - (a) 100% upon submission of ROW-A-10
- e) Appraisal Update
 - i) Payment
 - (a) Per Parcel Basis
 - ii) Milestones
 - (a) 100% upon delivery of complete and acceptable appraisal update.
- f) Negotiation, Task, and Fees
 - i) Payment
 - (a) Per Parcel Basis
 - ii) Milestones
 - (a) 80% upon presentation of initial offer.
 - (b) 20% upon successful negotiation and all instruments are recorded.
- g) Closing Service Fees
 - i) Payment
 - (a) Per Parcel Basis
 - ii) Milestones
 - (a) 100% upon recordation of instrument of conveyance.
- h) Relocation Assistance
 - i) Payment
 - (a) Per Relocation
 - ii) Milestones
 - (a) 100% upon issuance of 90-day vacancy letter.
- i) Compensable Utilities
 - i) Payment
 - (a) By percent complete

EXHIBIT "B"

SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

ADDITIONAL RESONSIBILITIES

Easements, Letters of Permission, Etc.

The ENGINEER shall be responsible for delineating easements. The ENGINEER will be responsible for securing the necessary legal instruments.

Coordination of Utilities

The ENGINEER shall furnish the LPA prints of a project layout which will be distributed by ENGINEER to various utility companies to determine which utilities are in the limits of the project. These shall be preliminary layouts. Upon completion of the preliminary drainage plans and U&D sheets, the ENGINEER shall distribute to the various utility companies and request return. Upon return of these prints, the ENGINEER will schedule a meeting with the various utility companies to discuss potential conflicts and conformance with the State's Utility Accommodation Policy. The ENGINEER is responsible for coordination with the various utility companies for exposing potential conflicts and field ties to uncover utilities in potential conflict areas.

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 LPA. The ENGINEER shall coordinate through the LPA 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

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 incorporate references to approved State test procedures.

Project Manager/Engineer Communication

The ENGINEER shall designate one Texas Registered Professional Engineer to be responsible throughout the project for project management and all communications, including billing, with the LPA's Director. Any replacements to the ENGINEER's designated Project Manager/Engineer must be approved by the LPA.

Engineering documents produced for the department's engineering projects shall be signed, sealed and dated or CADD sealed in accordance with Administrative Order No. 5-89 and Administrative Circular No. 26-91.

Design Responsibilities

The ENGINEER is responsible for design errors and/or omissions that become evident before, during or after construction of the project. The ENGINEER's responsibility for all questions arising from design errors and/or omissions will be determined by the LPA and all decisions shall be final and binding. This would include, but not necessarily be limited to:

1. All design errors and/or omissions resulting in additional design work to correct the errors and/or omissions.
2. Preparation of design documents and detail drawings necessary for a field change due to design errors and/or omissions.
3. Revision of original tracings to the extent required for a field change due to design errors and/or omissions.

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 LPA will not relieve the ENGINEER of the responsibility for subsequent correction of any such errors or omissions or for clarification of any ambiguities.

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

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>
PS&E Development	Mission Office
Rail Road Coordination	Mission Office
Right-Of-Way Acquisitions	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

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

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 Lavouts

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 Lavouts/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

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

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

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

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

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 D-1
ESTIMATED MAN-HOUR BREAKDOWN

MILE 1 PROJECT ~ from Business 83 North to Mile 8

		Senior Project Manager	Senior Engineer	Project Engineer	Senior Engineer Tech	Admin / Clerical	TOTAL HOURS	Sub-Contract COST	TOTAL LINE ITEM COST	* ROUNDED TOTAL LINE ITEM COST
CONTRACT RATE		292.99	229.45	197.68	141.20	77.66				
WORK AUTHORIZATION NO. 2 - WITH HIDALGO COUNTY										
PHASE II - PS&E, ROW ACQUISITION, COMPENSABLE & PERMITTED UTILITY (PARTIAL WORK)										
164	Project Management	90	131	228	115	17	581		\$ 119,056.31	\$ 119,053.49
160	PS&E Development Roadway	71	375	387	558	24	1415		\$ 264,001.64	\$ 264,000.00
160	PS&E Development Outfall	42	94	115	125	17.5	394		\$ 75,616.13	\$ 75,615.59
162	Traffic Engineering Design	16	62	67	82	20	247	\$ 45,711.84	\$ 45,289.90	\$ 91,000.00
163	Permitted Utilities Coordination to adjust	15	0	69	182	28	294		\$ 45,907.65	\$ 45,900.00
163	Coordinate Railroad Exhibit A Identifying Railroad signals and Mast Arm Designs	14	27	53	56	17	167		\$ 30,001.47	\$ 30,000.00
163	Railroad Planking Design	14	23	31	38	21	127		\$ 22,503.75	\$ 22,500.00
163	Coordinate a Construction/Maintenance Agreement for the planking and Arms	14	23	31	38	21	127		\$ 22,503.75	\$ 22,500.00
600	Roadway & Outfall Right-of-Way costs - Acq. Services	(See Exhibit "D-1" Page 3 of 5)							\$ 220,000.00	\$ 220,000.00
601	Estimated compensable Utility Management for Acq. Of Property Rights and Compensate for Utility Adjustments	40	0	124	244	17	425		\$ 72,004.94	\$ 72,000.00
SUB-TOTAL		316	735	1105	1438	182.5	3776.5	\$ 45,711.84	\$ 916,885.54	\$ 962,569.08

Sub-Total Manhours Fee with Subconsultant Fee: \$ 962,597.38

*** TOTAL PROJECT FEE: \$ 962,569.08**

EXHIBIT "D-1"
FEE SCHEDULE - L&G ENGINEERING's ROW ACQUISITION SERVICES

Mile 1 E Road Project
Limits: Business 83 to Mile 8 N

The following is an estimated Parcel No. Cost for completing the subject project's Right-of-Way Acquisition Services as outlined in Exhibit B according to the Exhibit D "Fee Schedule" of the contract. The parcels are estimated from the approved Schematic. **The work and payment, for these services will be accomplished by L&G Engineering and approved and paid for by Hidalgo County Pct#1 - on a percent complete basis as approved by Hidalgo County Pct#1.** L&G Engineering will be completing the work on the approximate schedule provided in Exhibit C of this Work Order or as approved by The City of Mission. The Parcels will be acquired either by completing the entire negotiation of the parcel or by modifying the approved schematic to acquire the parcels. This is a lump sum cost proposal.

RIGHT-OF-WAY ACQUISITION SERVICES

Estimated Number of Parcels	Project Admin (Per Parcel)	Title Services Per Parcel	Appraisal Services Per Parcel	Appraisal Review Per Parcel	Appraisal Update	Negotiation Fees Per Parcel	Closing Services Per Parcel	**Relocation (Residential/Business)	Grand Total of Task
10 Roadway	\$4,450.00	\$2,100.00	\$3,250.00	\$1,050.00		\$5,000.00	\$300.00		\$161,500.00
5 Compensable Utilities Easements	\$4,450.00	\$0.00	\$1,500.00	\$750.00		\$5,000.00	\$0.00		\$58,500.00
Sub Total of Tasks	\$66,750.00	\$21,000.00	\$40,000.00	\$14,250.00	*	\$75,000.00	\$3,000.00	\$0.00	\$220,000.00

(*) Appraisal Update costs included in Project Administration.

(**) Relocation assistance cost or displacements included in Project Administration.

- Any condemnation support required will be provided by L&G Engineering as part of the administrative costs.

EXHIBIT B "FEE SCHEDULE" - TRAFFIC ENGINEERING DESIGN
Along Mile 1 East Road: From BUS 83 to Mile 8 North Road

ETSI GROUP LLC

TRAFFIC ENGINEERING DESIGN - 50% DESIGN A		MANHOURS						Total
		No. of sheets (estimated)	Project Manager	Senior Transp. Engineer	Transportation Engineer	CADD Designer	Administrative Assistant	
TASK								
1	General Notes	n/a	1	2	2		2	7
2	Basis of Estimate	1	2	4	8	8		22
3	Condition Diagram	4	2	4	12	12		30
4	Proposed Plan Layout	7	8	18	34	34		94
5	Signal Phasing and Timing	2	3	6	12	12		33
6	Electrical Schedule	3	4	8	12	12		36
7	Int..Signs, Pav.Markings, Curb Ramps	n/a	3	6	8	8		25
8	Standard Sheets List	15	1	2	4	4		11
9	Specifications and Cost Estimate	1	1	2	4	4		11
10	Coordination and Meetings	n/a	7					7
11	Temporary Traffic Signals	2	4	6	12	12		34
12	Highway-Rail Grade Crossing	3	4	8	24	24		60
	Subtotal	38	40	66	132	130	2	370

Total Labor Hours		40	66	132	130	2	370
Hourly Rates		\$ 223.81	\$ 173.08	\$ 113.40	\$ 74.60	\$ 59.68	
Total Labor Costs		\$ 8,952.40	\$ 11,423.28	\$ 14,968.80	\$ 9,698.00	\$ 119.36	\$ 45,161.84

Ergonomic Transportation Solutions, Inc. Expenses

EXPENSES

Printing Reproduction

\$ 25.00

Travel

\$ 525.00

Total Expenses

\$ 550.00

ETSI Total Cost

\$ 45,711.84



1419 Dove Avenue, McAllen, Texas 78504
Office (956) 687-7295 / leonel3@garza-associates.com

APPRAISAL SERVICES BID

July 19, 2023

L & G Consulting Engineers
C/o Luana Gonzalez
900 S. Stewart Road, Suite 9, Mission, Texas 78572
Office (956) 585-1909

Project: Mile 1 E Road Project – Limits: Business 83 to Mile 8 North
Projected Time Frame: To Be Established by Client
Price: 10 Fee Simple Reports at \$ 2,250 / Each
5 Easement Reports at \$1,125 / Each
Total Cost: \$ 28,125

**Eminent Domain
Prep. / Testimony / Support:** \$150.00 Per Hour
Expert Witness / Trial: \$250.00 Per Hour

Client & Intended User
The client and intended user of this report is identified as the L&G Engineering & Transportation Consultants

Intended Use
The intended use of the reports is to provide a market valuation of the proposed acquisition area which shall be purchased in the name of Hidalgo County.

Scope of the Assignment
The scope of the assignment is to determine the market value of the part to be acquired and any contributory value of improvements located within the part to be acquired. A review of the remainder, if any, shall be performed to determine if there is a diminution of market value that is compensable. Reports shall conform to standards set forth by the Texas Department of Transportation, Senate Bill-18 and the County of Hidalgo.

Thank you for the opportunity:

Leonel Garza III
Certified Real Estate Appraiser
TX-1328375-G

HLH APPRAISAL SERVICES
Specializing in Appraisal Review of Road and Highway Projects

July 20, 2023

Ms. Luana M. Gonzalez
Right of Way Administrator
L & G Engineering
900 South Stewart Road
Suite 10
Mission, TX. 78572

RE- PROPOSED EXHIBIT D -FEE SCHEDULE

Hidalgo County
Mile 1 Road
From Business 83 to Mile 8 North
13 Fee Parcels & 7 Easement Parcels

Dear Ms. Gonzalez:

Reference is made to the above project and the fee proposal for the appraisal review of 10 fee parcels and 5 easement parcels. The following are an estimated time and fee schedule for the 15 parcels:

- Completed appraisal review on TxDOT's electronic version of Form ROW-A-10 shall be submitted to you no later than 3 days following my receipt of the appraisal report provided the report is acceptable and does not have to be returned for extensive corrections/review. This is the 3-day turnaround required by TxDOT on all PREAS Projects. Depending on the timely receipt of appraisal reports from the primary appraiser, this project shall be completed no later than 30 days from the release.
- The fee proposal is \$800 per fee parcel review and \$400 for the easement parcel review for a total of \$10,000. If any updated appraisal reviews are necessary, an update will be accomplished for the same fee amount as the original fee of \$800/fee and \$400/easement.

Please be advised that I will work directly with the appraiser to resolve any questions or discrepancies. As always, I intend to submit the appraisal reviews in a timely manner to meet your project deadlines.

Thank you for this appraisal review bid request.

Sincerely,


Harvey L. Heerssen
TX. State Certified General Appraiser
No. TX-1327190-G

HLH: hh