

EXHIBIT “F”
Supplemental Agreement Form

THE STATE OF TEXAS §
 §
COUNTY OF HIDALGO §

**SUPPLEMENTAL AGREEMENT NO. 1
TO WORK AUTHORIZATION NO. 2
TO AGREEMENT FOR PROFESSIONAL SERVICES
C-17-103-05-30**

This **SUPPLEMENTAL AGREEMENT** is made pursuant to the terms and conditions of Article 8 of the Agreement made by and between **HIDALGO COUNTY**, hereinafter called the “**Owner**”, and **L&G ENGINEERING**, professional engineers of Mercedes, Texas, hereinafter called the “**Engineer**”.

WITNESSETH

WHEREAS, the **Owner** and the **Engineer** executed the Main Contract Agreement on the 30th day of May, 2017, concerning professional engineering services for the “**Mile 6W** project from Mile 9 to Mile 11 for the preparation of PS&E hereinafter referred to as the “**Project**”; and,

WHEREAS, it has become necessary to amend “*Exhibit B, Scope of Services to be provided by the Engineer*” of Work Authorization No. 2; and

WHEREAS, it has become necessary to amend “*Exhibit D-1 – Fee Schedules* of Work Authorization No. 2; and,

WHEREAS, the Estimated Cost will increase from the original Work Authorization No. 2 amount of \$457,600.00 to \$521,959.00; therefore the amount of Supplemental No. 1 is \$64,359.00

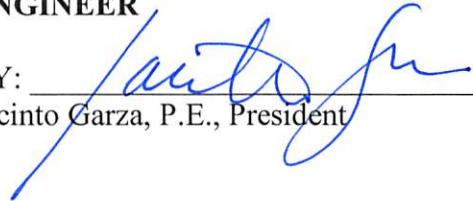
NOW THEREFORE, premises considered, the **Owner** and the **Engineer** agree that said **Agreement** is amended as follows:

-
- I. Sections of the Agreement, EXHIBIT “B” – SERVICES TO BE PROVIDED BY THE ENGINEER and EXHIBIT “D-1” – PROJECT ESTIMATED FEE SCHEDULE, are revised to reflect the above listed modifications of this Supplemental.

All other provisions are unchanged and remain in full force and effect.

IN WITNESS WHEREOF, the Engineer and the Owner have caused this Supplemental Agreement to the Agreement for Professional Services to be executed as of the _____ day of _____, 2018.

**THE ENGINEER:
ENGINEER**

BY:  _____
Jacinto Garza, P.E., President

**THE OWNER:
HIDALGO COUNTY**

BY: _____
Ramon Garcia, County Judge

LIST OF EXHIBITS:

- EXHIBIT B – “Scope of Services to be provided by the Engineer”
- EXHIBIT D-1 – “Project Estimated Fee Schedule”

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

SECTION 6 - FIELD SURVEYING AND PHOTOGRAMMETRY

REVISED to reflect the increase in project length of 0.3 miles

(Function Code 150)

Services
Provided By:
SURVEYOR LPA

DESIGN AND CONSTRUCTION SURVEYS:

PURPOSE:

The purpose of a "design survey" is to provide field information in support of transportation systems design.

The purpose of a "construction survey" is to provide field data in support of highway construction.

DEFINITIONS:

A "design survey" is defined as the combined performance of research, field work, analysis, computation, and documentation necessary to provide detailed topographic (3-dimensional) mapping of a project site. A design survey may include, but need not be limited to, cross-sections or data to create cross-sections and Digital Terrain Models (DTM), horizontal and vertical location of utilities and improvements, detailing of bridges and other structures, review of right-of-way maps, establishing control points, etc.

A "construction survey" is defined as the combined performance of reconnaissance, field work, analysis, computation, and documentation necessary to provide the horizontal and vertical position of specific ground points to be used by the construction contractor for determining lines and grades.

- | | | |
|-----|----|--|
| YES | NO | <p>1. Design Surveying</p> <p>a. Primary Project Control – Recover/Verify existing primary points set by TEDSI Between Mile 11 and 0.30 miles north of Mile 11.
Precision shall be 1 part in 20,000 or better, unless otherwise directed by the District Engineer.
(1) Establish horizontal control points
(2) Establish vertical control points
NOTE: ALL BEARING AND DISTANCE SHALL BE BASED ON THE STATE PLANE COORDINATE SYSTEM NAD 1983, SOUTH ZONE. ALL DISTANCES AND COORDINATES SHALL BE SURFACE AND MAY BE CONVERTED TO GRID BY MULTIPLYING BY A COMBINED SCALE FACTOR OF 0.999960</p> |
| YES | NO | <p>b. Secondary Project Control – Recover/Verify and set as needed for section from Mile 11 north 0.30 miles. Surveyor shall recover and/or reset H&V Control Points as provided by the Engineer and create Survey Control Data Sheets for inclusion in the Construction Project Plans signed and sealed by an R.P.L.S.
(1) No traverse should exceed 25 angle points. Planimetrics shall be 20 ft Lt & Rt from the proposed ROW as per the schematic provided by the Engineer.
(2) The unadjusted angular error should not exceed 2 seconds per angle, plus 14 seconds.
(3) The unadjusted ratio of precision should be one part in 10,000 or better. (The ratio of precision is the total length of the traverse divided by the total error.)
(4) The unadjusted vertical error should not exceed 0.03 foot per mile of traverse.
(5) Project control base lines</p> |
| NO | NO | <p>(6) Photogrammetric ground control
(a) Establish horizontal control
(b) Establish vertical control points
(c) Place and maintain control point targets</p> |

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

Services
Provided By:
SURVEYOR LPA

YES NO

c. Other Design Surveying

- (1) **The limit of the Design surveys shall be from Mile 11 north approximately 0.30 miles. Also, need to establish horizontal and vertical control along Mile 6 north of Mile 11. Set H&V Control at 1000-ft intervals along the project proposed right-of-way. Provide x, y, z for each H&V Control. Provide an H&V Control along each outfall identified on the Hydrologic Map. The H&V Control shall be #5 I.R. 2-ft in depth set in concrete. The surveyor shall provide an H&V Control Book (a Sample shall be provided by the Engineer to the Surveyor). The Surveyor will provide a 3-pt reference sketch with ties to the BMs for inclusion the existing H&V Control Book. Establish benchmark circuit throughout the project with a tolerance of 0.03'/ft per mile error vertically.**
- (2) Complete topographic and cross section survey, data processing, and CADD mapping (2D & 3D) for the limits shown above.
- (3) Locate all visible utilities, data processing and CADD mapping (2D & 3D) including irrigation lines. Follow sample provided by the Engineer.
- (4) Field locate cross culverts, driveway culverts, inverts, irrigation lines, within the project limits, data processing and CADD mapping (2D & 3D).
- (5) Right of Entry, Right of Way Research, and Appraisal District Records is the responsibility of the Surveyor.
- (6) The Surveyor shall stake the proposed centerline on the existing fields as approved by Engineer before construction for the purpose of utility adjustments and project location.
- (7) Profile and cross section intersecting streets for ties into project (500-ft. beyond the proposed ROW per schematic and 20-ft wider than the existing ROW of intersecting street).
- (8) Cross section irrigation crossings for a distance of 20-ft beyond the proposed ROW at 100-ft intervals in a DTM file. Provide a complete description of irrigation appurtances as identified by the engineer sample layout "EXHIBIT E". The SURVEYOR will meet with the ENGINEER before he ties down any irrigation lines. Jointly the SURVEYOR and the ENGINEER will identify from records such as the Irrigation District Maps and the A&M Data of existing irrigation lines that will need to be tied down. The SURVEYOR will follow the sample given to him by the ENGINEER and tie the structures horizontally and vertically and include in the field books to be submitted.
- (9) Tie Horizontally and Vertically the existing storm drain system that lies within the existing proposed ROW including the elevation of the outfall of said recovered existing storm drain systems.
- (10) Tie to existing underground and overhead utilities (location, elevation and direction)
Horizontally – The surveyor shall call the 1-800 number for the utilities to be marked on the ground as well as any city water and sewer lines. He shall tie all visible utility crossings with name, address and Phone #'s of utility companies. The engineer will coordinate with the utility companies and jointly the Surveyor and the Engineer will identify which utilities were missed and need to be tied down.
Vertically – The engineer shall identify all utilities that are potential conflicts and that need to be tied vertically. The engineer will advise the surveyor in writing of the needed vertical ties and the surveyor will tie the lines vertically once the surveyor has coordinated the exposure and provide the information to the engineer.

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

Services
 Provided By:
SURVEYOR LPA

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|-----|----|---|
| YES | NO | (11) Cross section and profile outfall channel north of Mile 11 identified on the Hydrologic Map for a distance of 200-ft beyond the proposed ROW upstream and downstream at 100-ft intervals. The SURVEYOR will provide a complete 2D/3D File including utilities of the outfalls identified. Identify size and flow lines of structures in outfall D. Tie-down MBGF at Outfall D. |
| | | (12) Driveways and Turnouts |
| | | (a) Inventory commercial entrances, public roads and side streets separately. |
| | | (b) Obtain centerline station. (Width at ROW, PAV'T and existing radius. |
| | | (c) Inventory by type (dirt, caliche, gravel or paved). If paved, indicate condition in terms of no patches, has patches or has potholes. |
| | | (d) Obtain width at R.O.W. line. |
| | | (e) Obtain elevations at both edges of the driveway or turnout in line with the side drain. |
| NO | NO | (13) ROW staking (Existing and Proposed @ 1,000 ft. stations PC's PT's and Angle points as per ROW Map) Need staking of entire Mile 6 limits (from Mile 10 to 0.25 mi. North of Mile 11). |
| NO | NO | (14) Soil core hole staking at bridge class structures. |
| NO | NO | (15) Determine changes in topography from voids and outdated maps due to development, erosion, etc. |
| NO | NO | (16) Profiles of existing drainage facilities. |
| NO | NO | (17) Measurement of hydraulic opening under existing bridges. |
| NO | NO | (18) Obtain elevations of manholes and valves of utilities |
| NO | NO | (19) Provide temporary signs, traffic control, flags, safety equipment, etc. |
| NO | NO | (20) Ties to existing bridges railroad rail elevations or culverts that may conflict with new construction. |
| NO | NO | (21) Bridge widening top of deck and/or top of cap elevations at the Profile Grade Line (PGL) and the edges of slab at bent locations. |
| NO | NO | (22) Inventory signs, mailboxes, and driveways |
| NO | NO | (23) Locate wetlands. |
| NO | NO | (24) Locate existing right-of-ways. |

d. Construction Surveys:

In performing construction surveys, the following will be requested by the ENGINEER on an as needed basis, but need not be limited to:

- | | | |
|----|----|--|
| NO | NO | (1) Stake existing and/or proposed right-of-ways. |
| NO | NO | (2) Stake existing and/or proposed baseline/centerline. |
| NO | NO | (3) Stake proposed bridge structures. |
| NO | NO | (4) Stake proposed drainage structures, such as manholes, culverts, etc. |
| NO | NO | (5) Set grade stakes. |
| NO | NO | (6) Recover and check existing control points. |
| NO | NO | (7) Establish additional control points. |
| NO | NO | (8) Check elevations and locations of structures. |
| NO | NO | (9) Determine and resolve conflicts associated with survey data. |

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

Services
 Provided By:
SURVEYOR LPA
 NO NO

2. Photogrammetric Products

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

3. UTILITY SUBSURFACE INVESTIGATION:

Utility Quality Levels are in cumulative order (least to greatest) as follows

- | | | |
|-----|----|---|
| YES | NO | 3.1. Quality Level C - Existing Records: Utilities are plotted from review of available existing records that will be generated by the Engineer on the schematic and provided to the surveyor for his further creation of a Utility Map which will be turned in as a deliverable as part of this work order. |
| YES | NO | 3.2. Quality Level B - Surface Visible Feature Survey: The Surveyor shall gather the field tied Utility Information and compare it to the existing records (if any) as provided by the Engineer and correlate with surveyed surface-visible features. The surveyor shall create a Utility Layout Map or plan layout 2D, showing the limits of the proposed project and limits of the work area required for this work authorization; including highway stations, limits within existing or proposed right of way. Correlate utility owner records with designating data and resolve discrepancies using professional judgment. A color-coded composite utility facility plan with utility owner names, quality levels, line sizes and subsurface utility locate (test hole) locations. The Layout Map will include all utilities that have been field tied – 2D Horizontal Utilities. This Layout will be provided to the Engineer and a meeting held with Engineer to identify which utilities will need to be tied down vertically. A note must be placed on the designate deliverable only that states "lines sizes are from best available records". All above ground appurtenance locations must be included in the deliverable to the Engineer. This information will be provided in the latest version of Micro Station or Geopak used by the State. The electronic file will be delivered on C.D. or DVD. A hard copy is required and must be signed, sealed, and dated by the Surveyor. Note: Determine and inform the Engineer of the approximate utility depths at critical locations. This depth indication is understood by the Engineer to be approximate only and is not intended to be used for preparing the construction plans. |
| YES | NO | 3.3. <u>Subsurface Utility Locate (Test Hole) Service (Quality Level A), THE SURVEYOR SHALL LOCATING VERICALLY 10 UTILITES OR AS IDENTIFIED BY THE ENGINEER.</u> Locate shall mean to obtain precise horizontal and vertical position, material type, condition, size and other data that may be obtainable about the utility facility and its surrounding environment through exposure by non-destructive excavation techniques that ensures the integrity of the utility facility. Subsurface Utility Locate (Test Hole) Services (Quality Level A) are inclusive of Quality Levels B and C. The Surveyor shall: <ul style="list-style-type: none"> 3.3.1 Review the requested test hole locations that have been identified by the Engineer and Coordinate with utility owner inspectors as may be required by law or utility owner policy. |

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

Services
 Provided By:
SURVEYOR LPA

3. *Utility Subsurface (continued)*
 - 3.3.2 Measure and record the following data on an appropriately formatted test hole data sheet that has been sealed and dated by the Engineer:
 - Elevation of top and/or bottom of utility tied to the datum of the furnished plan.
 - Identify a minimum of two benchmarks utilized. Elevations shall be within an accuracy of 15mm (.591 inches) of utilized benchmarks.
 - Elevation of existing grade over utility at test hole location.
 - Horizontal location referenced to project coordinate datum.
 - Outside diameter of pipe or width of duct banks and configuration of non-encased multi-conduit systems.
 - Utility facility material(s).
 - Utility facility condition.
 - Coating/Wrapping information and condition.
 - Unusual circumstances or field conditions.
 - 3.3.3 Excavate test holes in such a manner as to prevent any damage to wrappings, coatings, cathodic protection or other protective coverings and features. Water excavation can only be utilized with written approval from the appropriate State District Office.
 - 3.3.4 Back fill all excavations with appropriate material, compact backfill by mechanical means, and restore pavement and surface material. The Engineer shall be responsible for the integrity of the backfill and surface restoration for a period of three years. Install a marker ribbon throughout the backfill.
 - 3.3.5 Provide complete restoration of work site and landscape to equal or better condition than before excavation.
 - 3.3.6 Plot utility location position information on the Utility Layout sheet and identify the vertical elevation and sealed by the responsible Surveyor. This information will be provided in the latest version of Micro Station or Geopak format used by the State. The electronic file will be delivered on C.D or DVD.

4. DELIVERABLES:

The deliverables to be specified in individual work authorizations for design surveys and construction surveys may be any combination of the following:

- | | | |
|-------------------|----------------|--|
| YES
YES | NO
NO | 4.1. Digital Terrain Models (DTM) in a format acceptable by the ENGINEER.
4.2. Final H&V Field Book Binder with all pertinent information obtained in the field for Design Surveys. Maps, plans, or sketches prepared by the SURVEYOR showing the results of field surveys. |
| YES
YES
YES | NO
NO
NO | 4.3. Computer printouts or other tabulations summarizing the results of field surveys.
4.4. Digital files or media acceptable by the ENGINEER containing field survey data.
4.5. Maps, plats, plans, sketches, or other documents acquired from utility companies, private corporations, or other public agencies, the contents of which are relevant to the survey. |
| YES
YES | NO
NO | 4.6. Field survey notes, as electronic and/or hard copies.
4.7. A H&V Control Book identifying the basis of the Primary and Secondary Control and an 8 ½ inch by 11 inch survey control data sheet for each construction control point which shall include, but need not be limited to, a location sketch, a physical description of the point including a minimum of two reference ties, surface coordinates, a surface adjustment factor, elevation, and the horizontal and vertical datums used. Survey control data sheets shall be signed and sealed by the supervising Registered Professional Land Surveyor. |

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

Services
 Provided By:
SURVEYOR LPA

4. *Deliverables (continued)*

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|-----|----|--|
| YES | NO | 4.8. Final mylar set of 11 inch by 17 inch Survey Control data sheets sign and seal by the RPLS per TxDOT guidelines. |
| YES | NO | 4.9. A digital and/or hard copy of all computer printouts of horizontal and vertical conventional traverses, GPS analysis and results, data including property descriptions with field notes and plats, right-of-way maps, and survey control data sheets to include in the H&V Field Book Binder. |
| YES | NO | 4.10. Survey reports in a format requested by the ENGINEER. |
| YES | NO | 4.11. Items indicated under the Automation Requirements Section 6. |

5. **GENERAL REQUIREMENTS:**

- 5.1. Design surveys and construction surveys shall be performed under the supervision of a Registered Professional Land Surveyor currently registered with the Texas Board of Professional Land Surveying.
- 5.2. Horizontal ground control used for design surveys and construction surveys, furnished to the SURVEYOR by the ENGINEER or based on acceptable methods conducted by the SURVEYOR, shall meet the standards of accuracy required by the STATE.
- 5.3. Reference may be made to standards of accuracy for horizontal control traverses, as described in the FGCS Standards and Specifications for Geodetic Control Networks, latest edition, the TxDOT Survey Manual, latest edition, the TxDOT GPS Manual of Practice, latest edition, or the TSPS Manual of Practice for Land Surveying in the State of Texas, as may be applicable.
- 5.4. Vertical ground control used for design surveys and construction surveys, furnished to the SURVEYOR by the ENGINEER or based on acceptable methods conducted by the SURVEYOR, shall meet the standards of accuracy required by the ENGINEER.
- 5.5. Reference may be made to standards of accuracy for vertical control traverses, as described in the FGCS Standards and Specifications for Geodetic Control Networks, latest edition, the TxDOT Survey Manual, latest edition, the TxDOT GPS Manual of Practice, latest edition, or the TSPS Manual of Practice for Land Surveying in the State of Texas, as may be applicable.
- 5.6. Side shots or short traverse procedures used to determine horizontal and vertical locations shall meet the following criteria:
 - Side shots or short traverses shall begin and end on horizontal and vertical ground control as described above.
 - Standards, procedures, and equipment used shall be such that horizontal locations relative to the control may be reported within the following limits:
 - Bridges and other roadway structures: less than 0.1 of one foot.
 - Utilities and improvements: less than 0.2 of one foot.
 - Cross-sections and profiles: less than 1 foot.
 - Bore holes: less than 3 feet.
 - Standards, procedures, and equipment used shall be such that vertical locations relative to the control may be reported within the following limits:
 - Bridges and other roadway structures: less than 0.02 of one foot.
 - Utilities and improvements: less than 0.1 of one foot.
 - Cross-sections and profiles: less than 0.2 of one foot.
 - Bore holes: less than 0.5 of one foot.

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

Services
Provided By:
SURVEYOR LPA

5. **AUTOMATION REQUIREMENTS:**
 - 6.1 Planimetric design files (DGN) shall be fully compatible with the State's *Micro Station V8* graphics program without further modification or conversion.
 - 6.2 Electronically collected and processed field survey data files shall be fully compatible with the State's *CADD* systems without further modification or conversion. All files shall incorporate only those feature codes currently being used by the STATE.
 - 6.3 Digital Terrain Models (DTM) shall be fully compatible with the STATE's *GEOPAK* system without further modification or conversion. All DTM files shall be fully edited and rectified to provide a complete digital terrain model with all necessary break lines.

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

SECTION 9 - ADDITIONAL SIGNING, MARKINGS AND SIGNALIZATION

(Function Code 162)

Services
Provided By:
ENGINEER LPA

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|-----------|------------|---|
| <u>NO</u> | <u>N/A</u> | 1. Signing and Markings Layout |
| | | a. Requirements (Separate Layout) |
| | | (1) Roadway layout |
| | | (2) Center line with station numbering |
| | | (3) ROW lines |
| | | (4) Culverts and other structures that present a hazard to traffic |
| | | (5) Location of utilities, if not shown on plan and profile |
| | | (6) Existing signs to remain, to be removed, to be relocated |
| | | (7) Proposed signs (illustrated and numbered) |
| | | (8) Existing overhead sign bridges to remain, to be revised, removed or relocated |
| | | (9) Proposed overhead sign bridges indicating location by plan layout (electrical details need not be shown on this layout) |
| | | (10) Proposed markings (illustrated and quantified) which include pavement markings, object markings and delineation |
| | | (2) Quantities of existing pavement markings to be removed |
| | | (3) Proposed delineators and object markers |
| | | b. For projects involving freeway to freeway or other types of directional interchanges, projects including left-hand ramps or connections, the following information must be provided: |
| | | (1) The location of interchanges, main lanes, grade separations, frontage roads and ramps |
| | | (2) 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 |
| | | (3) The number of lanes in each section of proposed highway and the location of changes in numbers of lanes |
| | | (4) The projected traffic volumes as provided by the STATE (20 year traffic projection, unless otherwise determined by the District Engineer) |
| | | (5) Tentative ROW limits |
| | | (6) Direction of traffic flow on all roadways |
| | | (7) Main lane, ramp, frontage road, and necessary cross road profiles at proposed interchanges or grade separations |
| <u>NO</u> | <u>N/A</u> | 2. Summary of Small Signs Tabulation |
| <u>NO</u> | <u>N/A</u> | 3. Summary of Large Signs Tabulation including all Guide Signs |
| <u>NO</u> | <u>N/A</u> | 4. Sign Detail Sheets |
| | | a. All signs except route markers |
| | | b. Design details for large guide signs |
| | | c. Dimensions of letters, shields, borders, corner radii etc. |
| | | d. Designation of shields attached to guide signs |
| | | e. Designation of arrow used on exit direction signs |

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

Services
 Provided By:
ENGINEER LPA

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|---|--|
| <p><u>NO</u> <u>N/A</u></p> <p><u>NO</u> <u>N/A</u></p> <p><u>NO</u> <u>N/A</u></p> <p><u>N/A</u> <u>N/A</u></p> <p><u>N/A</u> <u>N/A</u></p> <p><u>N/A</u> <u>N/A</u></p> <p><u>N/A</u> <u>N/A</u></p> <p><u>N/A</u> <u>N/A</u></p> <p><u>YES</u> <u>N/A</u></p> | <p>5. Traffic Signals</p> <p>a. Development of Justification (Warrant) Data</p> <p>(1) Location Map
 Relationship of proposed installation to other traffic signals, highways, business areas and traffic generators</p> <p>(2) Photographs as appropriate</p> <p>(3) Accident data as appropriate</p> <p>(4) Vehicle volumes (provided by TxDOT)</p> <p style="padding-left: 20px;">(a) Existing</p> <p style="padding-left: 20px;">(b) Estimated</p> <p style="padding-left: 20px;">(c) Projected</p> <p style="padding-left: 20px;">(d) Pedestrian</p> <p>(5) Traffic Survey - Count Analysis</p> <p>(6) Recommendation based on above data</p> <p>b. Layout</p> <p>(1) Title Sheet (when applicable)</p> <p style="padding-left: 20px;">(a) Describe the location</p> <p style="padding-left: 20px;">(b) Type of installation</p> <p style="padding-left: 20px;">(c) Area map with project limits for each location</p> <p style="padding-left: 20px;">(d) Index of sheets</p> <p style="padding-left: 20px;">(e) Space for official signatures</p> <p>(2) Estimate and quantity sheet (when applicable)</p> <p style="padding-left: 20px;">(a) List of all bid items</p> <p style="padding-left: 20px;">(b) Bid item quantities</p> <p style="padding-left: 20px;">(c) Specification item number</p> <p style="padding-left: 20px;">(d) Paid item description and unit of measure</p> <p>(3) Basis of estimate sheet (list of materials)</p> <p>(4) General notes and specification data sheet</p> <p>(5) Condition diagram</p> <p style="padding-left: 20px;">(a) Highway and intersection design features</p> <p style="padding-left: 20px;">(b) Roadside development</p> <p style="padding-left: 20px;">(c) Traffic control including illumination</p> <p>(6) Plan sheet(s)</p> <p style="padding-left: 20px;">(a) Existing traffic control that will remain (signs and markings)</p> <p style="padding-left: 20px;">(b) Existing utilities</p> <p style="padding-left: 20px;">(c) Proposed highway improvements</p> <p style="padding-left: 20px;">(d) Proposed installation</p> <p style="padding-left: 20px;">(e) Proposed additional traffic controls</p> <p style="padding-left: 20px;">(f) When applicable, proposed conduit for Railroad interconnect with standard details for runs under tracks.</p> <p style="padding-left: 20px;">(g) Proposed illumination attached to signal poles.</p> <p>(7) Notes for plan layout</p> <p>(8) Elevation sheet(s) (span wire design)</p> <p>(9) Phase sequence diagram(s)</p> <p style="padding-left: 20px;">(a) Signal locations</p> <p style="padding-left: 20px;">(b) Signal indications</p> <p style="padding-left: 20px;">(c) Phase diagram</p> <p style="padding-left: 20px;">(d) Signal sequence table</p> <p style="padding-left: 20px;">(e) Flashing operation (normal and emergency)</p> <p style="padding-left: 20px;">(f) Preemption operation (when applicable)</p> <p style="padding-left: 20px;">(g) Interval timing, cycle length and offset</p> |
|---|--|

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

Services
 Provided By:
ENGINEER LPA

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|------------|------------|--|
| <u>YES</u> | <u>N/A</u> | 5. Traffic Signals (<i>continued</i>)
b. Layout (<i>continued</i>)

(10) Construction detail sheets(s)
(a) Poles (TxDOT standard sheets)
(b) Detectors
(c) Pull Box and conduit layout
(d) Controller Foundation standard sheet
(11) Marking details (when applicable)
(12) Barricade and warning sign standard sheet and any special details for work zone traffic control for special conditions
(13) Aerial or underground interconnect details (when applicable) |
| <u>YES</u> | <u>N/A</u> | c. General Requirements
(1) Contact local utility company
(a) Confirm power source
(b) Discuss route of aerial or underground interconnect cable (when applicable)
(c) Adjustment of overhead utility lines
(2) Prepare governing specifications and special provisions list
(3) Prepare project estimate |
| <u>YES</u> | <u>N/A</u> | |
| <u>YES</u> | <u>N/A</u> | |
| <u>YES</u> | <u>N/A</u> | |
| <u>YES</u> | <u>N/A</u> | |
| <u>YES</u> | <u>N/A</u> | d. Summary of Quantities |

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

SECTION 13 - FC 600 –
(APPRAISALS/REVIEWS ONLY FOR 19 PARCELS) - REVISED
 (Services to be provided by L&G Engineering)

Services Provided By:		
<u>ENGINEER</u>	<u>LPA</u>	
		1) PROJECT ADMINISTRATION
YES	NO	a) Negotiation of Scope of Services for Work Authorization i) Acquisition Provider will visit project site with COUNTY personnel if necessary.
YES	NO	b) Project Presence at L&G Consultant Office Headquarters i) Full Project Office (1) No Joint Use of COUNTY facilities (2) Open during normal COUNTY 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.
YES	NO	c) Overhead Costs i) Administrative costs
YES	NO	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.
YES	NO	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
YES	NO	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.
YES	NO	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.
YES	NO	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

- | YES | NO | |
|-----|----|--|
| | | 3) APPRAISAL |
| YES | NO | a) Appraiser may be selected from TxDOT's Department Certificate for Professional Real Estate 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. |
| YES | NO | 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. Maintain permission letters with appraisal reports. |
| YES | NO | c) Prepare (if necessary) pre-appraisal contact with interest owner(s) for each parcel using acceptable COUNTY forms. |
| YES | NO | 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. |
| YES | NO | 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 COUNTY policies and procedures along with the Uniform Standards of Professional Appraisal Practices. |
| YES | NO | f) As necessary, prepare written notification to COUNTY of any environmental concerns associated with the right of way to be acquired which could require environmental remediation. |
| YES | NO | g) All completed appraisals will be administratively reviewed by L&G Engineering ROW Office and recommended for approval by COUNTY. |
| YES | NO | 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 COUNTY. |
| YES | NO | i) As necessary, the appraiser will coordinate with review appraiser regarding revisions, comments, or additional information that may be required. |
| YES | NO | 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 |
| YES | NO | a) Review Appraiser may be selected from TxDOT's from TxDOT's Department Certificate for Professional Real Estate 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. |
| YES | NO | b) Review all appraisal reports for each parcel to determine consistency of values, supporting documentation related to the conclusion reached and compliance with COUNTY policies and procedures and the Uniform Standards of Professional Appraisal Practices. |
| YES | NO | c) Prepare and submit to COUNTY the Form ROW-RTA-10 "Tabulation of Values", for each appraisal. |

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

Services
 Provided By:
ENGINEER LPA

- | | | |
|--|----|---|
| YES | NO | 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 | | |
| YES | NO | a) Prepare complete appraisal update for the parcel to be acquired utilizing TxDOT Form No. ROW-A-5. These reports shall conform to COUNTY policies and procedures along with the Uniform Standards of Professional Appraisal Practices. |
| YES | NO | b) As necessary, prepare written notification to COUNTY 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 COUNTY. |
| YES | NO | 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. |
| YES | NO | 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. |
| YES | NO | 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 (Negotiations of Providers must be licensed as either a broker or sales agent under the Real Estate License Act) | | |
| YES | NO | a) Analyze appraisal and appraisal review reports and confirm the COUNTY's approved value prior to making offer for each parcel. |
| YES | NO | b) Analyze preliminary title report to determine potential title problems, propose methods to cure title deficiencies. |
| YES | NO | c) Prepare the initial offer letter, instruments of conveyance, and any other documents required or requested by COUNTY on applicable COUNTY forms. |
| YES | NO | 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. |
| YES | NO | 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). |
| YES | NO | f) Respond to property owner inquiries verbally and in writing within two business days. |
| YES | NO | 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

- | | | |
|-----|----|---|
| YES | NO | h) Maintain parcel files of original documentation related to the purchase of the real property or property interests. |
| YES | NO | i) Advise property owner on the Administrative Settlement process. Transmit to COUNTY any written counter offer from property owners including supporting documentation, and provider recommendation with regard to Administrative Settlements in accordance with COUNTY policy and procedures. |
| YES | NO | j) Prepare final offer letter, documents of conveyance as necessary. |
| YES | NO | k) Appear and provide Expert Witness testimony as an Acquisition Provider when requested. |
| YES | NO | 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. |
| YES | NO | m) Provide a monthly progress report per parcel by the 25th of the month with invoice. |
| YES | NO | n) The consultant estimates 20% of the parcels to be acquired through the condemnation proceedings. The consultant shall be available for any meeting/hearings as requested by the COUNTY Attorney. |
| | | 7) CLOSING SERVICE FEES |
| YES | NO | 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. |
| YES | NO | b) Acquisition Provider shall attend closings and provide closing services in conjunction with Title Company. |
| YES | NO | 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 COUNTY for acceptance by the COUNTY. |
| | | 8) RELOCATION ASSISTANCE SERVICES (separate Work Authorization will be issued once relocations have been identified, unless noted otherwise). |
| N/A | NO | 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) |
| N/A | NO | b) L&G will provide advisory services to business displacements and relocate them effectively. |
| N/A | NO | c) COUNTY will review, approve and pay for all relocation costs as per the Agreement. |
| | | 9) CONDEMNATION SUPPORT |
| N/A | NO | 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. |
| | | iii) Use the information from the Title Commitment to join all interested parties on the necessary forms. <u>Spouses of owners must also be joined.</u> |

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

Services
Provided By:
ENGINEER LPA

- 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.
- N/A 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:

- | | | |
|----|----|--|
| NO | NO | 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. |
| NO | NO | 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. |
| NO | NO | 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. |
| NO | NO | 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. |
| NO | NO | 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. |

EXHIBIT D-1 - REVISED
Supplemental #1 to Work Authorization #2

ESTIMATED MAN-HOUR BREAKDOWN

MILE 6 PROJECT ~ from Mile 9 to Mile 11

	Senior Project Manager	Senior Engineer	Project Engineer	Senior Engineer Tech	CADD Operator / GIS Analyst	Admin / Clerical	TOTAL HOURS	Sub-Contract Amounts / ROW COST	TOTAL LINE ITEM COST
CONTRACT RATE	204.04	169.06	125.34	87.45	64.13	58.30			
SUPPLEMENTAL NO. 1 to WORK AUTH. NO. 2 - WITH HIDALGO COUNTY									
PHASE III - ROW MAPPING, ROW ACQUISITION, UTILITY MANAGEMENT									
1	Add'l Costs to complete Perm/Temp Signal Designs @ Mile 9 and Mile 10 and Flashing Beacon @ Mile 11	80	100		71.616		251.616	\$ 3,707.49	\$ 34,359.02
2	Survey Work for add'l topo and Subsurface Utility Engineering (SUE) north of Mile 11	8	26		16.774		50.774	\$ 16,313.00	\$ 22,000.04
3	ROW reduction of Appraisal/Reviews from 37 to 19 Parcels due to NAWSC								\$ (72,000.00)
4	Additional Engineering Costs with Extending the Project from Mile 11 North 0.3 mi.	200	229	199.945			628.945		\$ 80,000.05
SUB-TOTAL									
	0	288	355	199.945	88.39	0	931.335	\$ 20,020.49	\$ 64,359.11

Sub-Total Manhours Fee with Subconsultant Fee:	\$	64,359.11
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* TOTAL PROJECT FEE:	64,359.00
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* Rounded Figure

EXHIBIT "D-1"

REVISED

**BUDGET
LUMP SUM RATE BASIS OF PAYMENT**

	A	B	C	D	F	G	H	I	J	K
1	R.O.W. Surveying Services, LLC									
2	Project: Mile 6 West									
3	County: Hidalgo County									
4	From: Mile 9 North									
5	To: SH 107									
6	Description of Work: Design Survey									
7	TASK AND DESCRIPTION	Survey		Survey	3-man	2-man	Admin/	Subsurface	Total	Cost
8	FC 150 Field Surveying	PM	RPLS	Technician	Survey Crew	Survey Crew	Clerical	Utility	Hours	
9	HOURLY RATE	\$124.00	\$125.00	\$82.00	\$155.00	\$130.00	\$50.00	\$500/ Test Hole		
10	PHASE 1 - FC 150 Field Surveying (Control Hz & Vt)									
11	A. Primary Control									
12	a. Recover/ Verify set as needed	0	1	1	2	0	0		4	\$ 517.00
13	B. Secondary Project Control									
14	a. Recover/Verify set as needed	0	1	2	6	0	0		9	\$ 1,219.00
15	Subtotal Hours	0	2	3	8	0	0	0	13	
16	Subtotal Cost - Phase 1	\$0.00	\$250.00	\$246.00	\$1,240.00	\$0.00	\$0.00			\$1,736.00
17	PHASE 2 - DTM Topography and Cross sections									
18	C. Design Survey									
19	1. Additional Topo on Mile 6 West North of Mile 11									
20	a. 2000' North of Mile 11	0	4	15	24	0	0		43	\$ 5,450.00
21	2. Subsurface Utility Engineering (S.U.E)									
22	a. Per Unit / App. 25 unless as requested by L&G PM							10	10	\$ 5,000.00
23										
24										
25										
26										
27										
28										
29	Subtotal Hours	0	4	15	24	0	0	10	53	
30	Subtotal Cost - Phase 2	\$0.00	\$500.00	\$1,230.00	\$3,720.00	\$0.00	\$0.00	\$5,000.00		\$10,450.00
31	PHASE 3 - FINAL REPORT & DELIVERABLES									
32	A. CADD file (2D & 3D) for limits of project	1	2	13	0	0	0		16	\$ 1,440.00
33	B. Final Report and Deliverables	1	3	6	0	0	4		14	\$ 1,191.00
34	Subtotal Hours	2	5	19	0	0	3		29	
35	Subtotal Cost - Phase 3	\$248.00	\$625.00	\$1,558.00	\$0.00	\$0.00	\$150.00			\$ 2,631.00
36	PROJECT MANAGEMENT & OVERSIGHT									
37	A. Meeting & Coordination w/ Engineers	1	1	0	0	0	5		7	\$ 499.00
38	B. QC/QA Survey	3	3	0	0	0	5		11	\$ 997.00
39	Subtotal Hours	4	4	0	0	0	10		14	
40	Subtotal Cost - PM & Oversight	\$496.00	\$500.00	\$0.00	\$0.00	\$0.00	\$500.00			\$ 1,496.00
41										
42										
43	Total Fee FC 150	\$744.00	\$1,875.00	\$3,034.00	\$4,960.00	\$0.00	\$650.00	\$22,875.00	109	\$16,313.00
44										
45	Grand Total FC 150									\$16,313.00

Exhibit D-1

SUPPLEMENTAL FEE SCHEDULE FOR TRAFFIC ENGINEERING DESIGN ALONG MILE 6 WEST, IN PRECINCT 1, HIDALGO COUNTY, TEXAS
 Ergonomic Transportation Solutions, Inc.

PERMANENT AND TEMPORARY TRAFFIC SIGNAL DESIGN AT MILE 9 & MILE 10 NORTH; FLASHING BEACON DESIGN AT MILE 11 NORTH			MANHOURS					Total
			No. of sheets (estimated)	Project Manager	Senior Transp. Engineer	Transportation Engineer	CADD Designer	
TASK								
1	General Notes	n/a						
2	Basis of Estimate	1						
3	Condition Diagram	3						
4	Proposed Signal & Fl. Beacon Layout	3						
5	Signal Phasing/Timing	n/a						
6	Electrical Schedules	2						
7	Int..Signs, Pav.Markings, Curb Ramps	n/a						
8	Standard Sheets List	12						
9	Specifications and Cost Estimate	n/a						
10	Coordination and Meetings	n/a						
11	TEMPORARY TRAFFIC SIGNALS	2	6	8	12			26
Subtotal			23	6	8	12		26

Total Sheets/Labor Hours	23	6	8	12			26
Contract Rates		\$ 68.00	\$ 46.00	\$ 34.00	\$ 23.00	\$ 19.00	
Direct Salary Cost		\$ 408.00	\$ 368.00	\$ 408.00	\$ -	\$ -	\$ 1,184.00
Overhead Multiplier	165.260%	\$ 674.26	\$ 608.16	\$ 674.26	\$ -	\$ -	\$ 1,956.68
Fixed Fee	12.50%	\$ 135.28	\$ 122.02	\$ 135.28	\$ -	\$ -	\$ 392.58
Total Labor Costs		\$ 1,217.54	\$ 1,098.18	\$ 1,217.54	\$ -	\$ -	\$ 3,533.26

Ergonomic Transportation Solutions, Inc. Expenses

EXPENSES

Printing Reproduction

\$ -

Travel

\$ 174.23

Deliveries

\$ -

Total Expenses

\$ 174.23

ETSI Total Cost

\$ 3,707.49

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

Mile 6W Project
 Limits: from Mile 9 to 0.3 Mi. North of Mile 11
 CSJ: 0921-02-168

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 - on a percent complete basis as approved by Hidalgo County.** L&G Engineering will be completing the work on the approximate schedule provided in Exhibit C of this Work Order or as approved by Hidalgo County. 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

Original Work Authorization No. 2

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
37	\$0.00	\$ 600.00	\$ 2,500.00	\$ 650.00		\$0.00	\$ 250.00		
Sub Total of Tasks	\$0.00	\$22,200.00	\$92,500.00	\$24,050.00	*	\$0.00	\$9,250.00	**	\$148,000.00

Suppl. No. 1 to Work Authorization No. 2 (Original Parcel Count of 37 decreased to 19 Parcels)

19	\$0.00	\$600.00	\$2,500.00	\$650.00		\$0.00	\$250.00		
Sub Total of Tasks	\$0.00	\$11,400.00	\$47,500.00	\$12,350.00	*	\$0.00	\$4,750.00	**	\$76,000.00

- (*) 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.