

HIDALGO COUNTY
Professional Engineering Services
Contract # C-15-136-06-02
Work Authorization Form

WORK AUTHORIZATION NO. 1

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of Article 1 of the Agreement made by and between **HIDALGO COUNTY**, action herein by and through the **Commissioner's Court**, hereinafter called the "**Owner**," and, **L&G Consulting Engineers, Inc. d/b/a L&G Engineering**, professional engineers of Mercedes, Texas hereinafter called "**Engineer**".

PART 1. SCOPE OF WORK

The purpose of this Work Authorization is for the **Engineer** to provide Engineering Services required for the preparation of the Environmental Document, Public Involvement and Schematic for the FM 2220 (Ware Road) project from FM 676 (Mile 5) to FM 1925.

The scope of services to be provided by the **Owner** is identified in **EXHIBIT "A" – Scope of Services to be provided by the Owner** attached hereto.

The scope of services to be provided by the **Engineer** is identified in **EXHIBIT "B" – Scope of Services to be provided by the Engineer** attached hereto.

PART 2. ESTIMATED COST

The estimated cost for services under this **Work Authorization** is **\$1,229,660.00**. This amount is based upon the costs outlined in the **Estimated Cost Proposal** attached hereto as **EXHIBIT "D-1" – Estimated Man-hour Breakdown**.

PART 3. PAYMENT

Compensation and payment to the **Engineer** for the services established under this Work Authorization shall be made in accordance with **Article 6** of the Agreement.

PART 4. FUNDING

This Work Authorization No. 1 shall be funded through funding source:

Account No. 5-1315-431-00-124-157-0-721

Requisition Number _____ (**MUST BE INCLUDED AFTER CC APPROVAL**)

PART 5. PERIOD OF SERVICE

This Work Authorization shall become effective on the date of final acceptance of the parties hereto, and terminate upon completion of scopes of the work authorization, as identified on **EXHIBIT "C" – Work Schedule**.

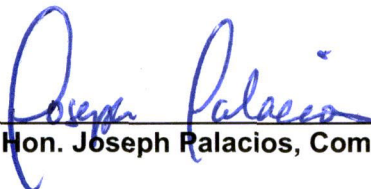
PART 6. RESPONSIBILITIES AND OBLIGATIONS

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

PART 7. ACKNOWLEDGEMENT AND CONFIRMATION

Acknowledgement and confirmation by Hidalgo County Precinct No. 4, Commissioner Joseph Palacios as to the content and detail of this **Work Authorization No. 1**.

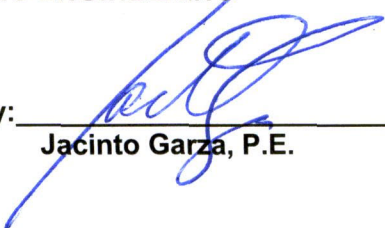
HIDALGO COUNTY PRECINCT NO. 4

BY: 
Hon. Joseph Palacios, Commissioner

PART 8. ACCEPTANCE AND APPROVAL

This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on **JUNE 2, 2015** as indicated below.

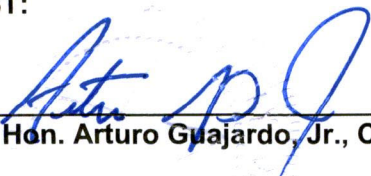
**THE ENGINEER:
L&G ENGINEERING**

By: 
Jacinto Garza, P.E.

**THE OWNER:
HIDALGO COUNTY**

By: 
Hon. Ramon Garcia, County Judge

ATTEST:

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

APPROVED BY
COMMISSIONERS' COURT
ON: 6/2/15 pm

LIST OF EXHIBITS

- Location Map
- Exhibit A – Services to be provided by Owner
- Exhibit B – Services to be provided by Engineer
- Exhibit C – Work Schedule
- Exhibit D-1 – Estimated Man-hour Breakdown

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.
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 I - PROJECT DESCRIPTION

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

COUNTY/CITY: HIDALGO COUNTY
CONTROL: _____
PROJECT/DESCRIPTION: Environmental, Public Involvement, Schematic
LENGTH: 5.0 Miles
HIGHWAY: FM 2220 (Ware Road)
LIMITS: from FM 676 (Mile 5) to FM 1925

EXISTING FACILITY

PROJECT CLASSIFICATION

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

- Drainage Outfall
- 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.

COUNTY shall mean the Hidalgo County

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

SECTION 2 – FEASIBILITY STUDIES
(Function Code 102)

Services Provided By:		
<u>ENGINEER</u>	<u>COUNTY</u>	
<u>YES</u>	<u>NO</u>	Preliminary Design Values <i>The Engineer will work with the Owner to establish basic design concepts, project controls and general scope of Projects.</i>
<u>YES</u>	<u>NO</u>	Preliminary Route Locations on Uncontrolled Mapping <i>The Engineer will evaluate various alternatives (route locations, alignment shifts, geometry) for the Project.</i>
<u>YES</u>	<u>NO</u>	Uncontrolled Mapping (w/Contours & GIS Info) <i>The Engineer will investigate the existing routes and coordinate with the Owner on establishing the best-fit alignments and mapping proposed geometry for Projects. Preliminary Location Exhibit will be developed.</i>
<u>YES</u>	<u>NO</u>	Preliminary Traffic Evaluations & Trends <i>The Engineer will investigate existing traffic models and trends for the proposed Projects and adjacent roadways tying into the proposed Projects.</i>
<u>YES</u>	<u>NO</u>	Preliminary Hydrologic Map <i>The Engineer will develop a Hydrologic Map for the Projects. Hydrologic Maps will be based on LIDAR and GIS information.</i>
<u>YES</u>	<u>NO</u>	Preliminary ROW Requirements <i>The Engineer will research and identify affected property owners on the Projects utilizing the latest appraisal district file information from Hidalgo County Appraisal District and information from Carson Maps.</i>
<u>YES</u>	<u>NO</u>	Preliminary Cost Estimates <i>The Engineer will calculate preliminary construction cost estimates for the location and geometry of the Projects.</i>
<u>YES</u>	<u>NO</u>	Preliminary Environmental Analysis (for fatal flaws) <i>The Engineer will perform Preliminary Environmental Constraint Mapping to determine if any fatal flaws exist along the proposed alignment.</i>
<u>YES</u>	<u>NO</u>	Project Fact Sheet with Est. Local Cost vs. Total Project Cost <i>The Engineer will produce a Project Fact Sheet providing summaries of all pertinent items in this scope of services (as required) and providing estimated local costs vs. total project costs for the Projects.</i>
<u>YES</u>	<u>NO</u>	Meetings, Coordination & Support for Project Development <i>The Engineer shall provide coordination services and shall assist in meetings and workshops with TxDOT, Hidalgo County, Hidalgo County Drainage District No. 1 and Hidalgo County Irrigation Districts, and all other affected parties. The Engineer shall serve as representative for the Owner in coordination items. The Engineer shall coordinate with the Owner’s staff on all Project related items.</i>

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

SECTION 3 - ROUTE AND DESIGN STUDIES
(Function Code 110)

Services
Provided By:
ENGINEER COUNTY

<u>YES</u>	<u>NO</u>	1. Route Location Studies*
<u>N/A</u>	<u>N/A</u>	2. Level of Service Analysis
<u>YES</u>	<u>NO</u>	3. Traffic Evaluations and Projections
<u>YES</u>	<u>NO</u>	4. Develop Roadway Design Criteria
<u>YES</u>	<u>NO</u>	5. Preliminary Cost Estimates
<u>YES</u>	<u>NO</u>	6. Design Schematic (See Section 7, page 7-1 for schematic layout requirements)
<u>YES</u>	<u>NO</u>	7. Preliminary Right-of-Way Requirements
<u>YES</u>	<u>NO</u>	8. Design Concept Conference
<u>N/A</u>	<u>N/A</u>	9. Soil Core Hole Drilling
<u>N/A</u>	<u>N/A</u>	a. Pavement (See Section 7, page 7-3 for requirements)
<u>N/A</u>	<u>N/A</u>	b. Retaining Walls (See Section 10, page 10-1 for requirements)
<u>N/A</u>	<u>N/A</u>	c. Miscellaneous Structures (See Section 10, page 10-3 for requirements)
<u>N/A</u>	<u>N/A</u>	d. Bridges (See Section 11, page 11-3 thru 11-4 for requirements)

* The Phase I or better survey for hazardous material should be included as a determining factor of route selection. Projects which do not require additional right of way should be considered separately from an expansion or new location.

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

SECTION 4
SOCIAL, ECONOMIC AND ENVIRONMENTAL STUDIES AND PUBLIC INVOLVEMENT
(Function Code 120)

Services
Provided By:
ENGINEER COUNTY

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|---|---|
| <p><u>N/A</u> <u>N/A</u></p> <p><u>YES</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>1. Environmental Reports
 All Environmental Reports shall be in accordance with 43 Texas Administrative Code (TAC) 2.40-2.51, Code of Federal Regulations, Title 23, Part 771 and Highway Design Operations and Procedures Manual, Part II-B.</p> <p>a. Environmental Assessments</p> <p>(1) An Environmental Assessment shall be prepared, anticipating a Categorical Exclusion.</p> <p>(2) An Environmental Assessment shall be prepared in accordance with 23 USC 327 and the 2014 TxDOT-FHWA Memorandum of Understanding, anticipating a Finding of No Significant Impact.</p> <p>(3) An Environmental Assessment shall be prepared, anticipating the need for a Draft Environmental Impact Statement.</p> <p>b. Environmental Impact Statement</p> <p>(1) A Draft Environmental Impact Statement shall be prepared. After appropriate interagency and public reviews within time limits prescribed by the Code of Federal Regulations, Title 23, Part 771 and 43 Texas Administrative Code 2.40-2.51, a Final Environmental Impact Statement shall be prepared.</p> <p>(2) A Section 4(f) Statement (Department of Transportation Act) shall be provided by the ENGINEER. The format and content of the statement is found in FHWA Technical Advisory T6640.8A.</p> |
| <p><u>YES</u> <u>N/A</u></p> <p><u>YES</u> <u>N/A</u></p> <p><u>YES</u> <u>N/A</u></p> | <p>2. Public Involvement
 All public involvement procedures shall be in accordance with 43 Texas Administrative Code (TAC) 2.40-2.51, Code of Federal Regulations Title 23, Part 771 and Highway Design Operations and Procedures Manual, Part II-B.</p> <p>a. A public involvement meeting(s) and public hearing shall be scheduled, coordinated and conducted.</p> <p>b. Technical assistance for one public meeting and one public hearing, preparation of, and maintenance of contact lists, minutes of meeting(s), exhibit preparation, and other tasks outlined by the COUNTY, shall be provided.</p> <p>c. A Notice of Availability (NOA) shall be published by the COUNTY upon approval of the environmental decision.</p> |
| <p><u>YES</u> <u>N/A</u></p> <p><u>YES</u> <u>N/A</u></p> <p><u>YES</u> <u>N/A</u></p> | <p>3. Technical Reports
 All technical reports shall be prepared in accordance with TxDOT's environmental rules and guidelines.</p> <p>a. Air Quality Analysis
 An air quality analysis shall be prepared in accordance with the STATE'S Air Quality Guidelines. The air quality analysis shall be provided as a Technical Report and a summary of the air quality results included in the administratively complete document for the project.</p> <p>b. Biological Technical Report
 A biological form and technical report shall be prepared in accordance with the STATE'S Biological Guidelines. The report will include water resources, and threatened and endangered species.</p> <p>c. Cultural Resources
 Historical and archeological studies shall be completed in accordance with the STATE'S guidelines.</p> <p>(1) Historic Structure Studies
 A records search, project coordination request, and reconnaissance survey shall be performed, and documentation prepared regarding identification efforts,</p> |

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

Services
 Provided By:
ENGINEER COUNTY

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| <u>YES</u> | <u>N/A</u> | <p>National Register eligibility and potential impacts to historic properties in accordance with the state's historic structure requirements.</p> <p>(2) Archeological Studies
 File searches, project coordination request, an archeological reconnaissance, and an archeological survey shall be conducted to determine if known archeological sites are present or have been designated State Archeological Landmarks; and to identify the need (if any) to perform additional archeological investigations.</p> |
| <u>YES</u> | <u>N/A</u> | <p>d. Community Impact Analysis
 A community impact analysis shall be prepared in accordance with the STATE'S Community Impact Guidelines.</p> |
| <u>YES</u> | <u>N/A</u> | <p>e. Hazardous Materials
 The consultant shall perform an Initial Site Assessment (ISA) for hazardous materials impact in accordance with the American Society for Testing and Materials (ASTM) 1528.93 (Transaction Screen Process) and a Hazardous Materials Technical Report, as needed.</p> |
| <u>YES</u> | <u>N/A</u> | <p>f. Indirect and Cumulative Impacts Analysis
 An indirect and cumulative impacts analysis shall be prepared in accordance with the STATE's guidelines.</p> |
| <u>YES</u> | <u>N/A</u> | <p>g. Noise Analysis
 A noise analysis shall be prepared, including predicted noise levels and the consideration and evaluation of noise mitigation, in accordance with the STATE'S Noise Guidelines. The noise analysis shall be provided as a Technical Report and a summary of the noise analysis results shall be included in the administratively complete document.</p> |
| <u>YES</u> | <u>N/A</u> | <p>4. Environmental Scoping
 The ENGINEER shall initiate the environmental scoping process with TxDOT. An environmental scoping document and risk assessment will be completed in coordination with TxDOT.</p> |
| <u>YES</u> | <u>N/A</u> | <p>5. General Guidelines for Preparation of Environmental Documents</p> <ol style="list-style-type: none"> a. All technical reports will be submitted electronically to TxDOT through their FTP site. b. The draft administratively complete document will be submitted to TxDOT electronically through their FTP site. c. The administratively complete document will be prepared in accordance with the content and format of FHWA Technical Advisory T6640.8A and the TxDOT Administrative Code 43 TAC §2.44. d. The administratively complete document will be submitted to TxDOT electronically through their FTP site. e. Upon completion and approval of the administratively and technically complete document, the Engineer will provide one (1) hard copy to the Client. All copies to TxDOT will be digital. f. Exhibits in the environmental document shall be color copies and text shall be black and white. |

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

SECTION 7 - ROADWAY DESIGN CONTROLS
(Function Code 160)

Services
Provided By:
ENGINEER COUNTY

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| <u>YES</u> | <u>N/A</u> | 1. Geometric Design |
| <u>YES</u> | <u>N/A</u> | a. Horizontal and Vertical Alignment for Schematic purposes |
| | | 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>YES</u> | <u>N/A</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 COUNTY

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| <u>YES</u> | <u>N/A</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>N/A</u> | <u>N/A</u> | 3. Exhibit for Airway/Highway Clearance Permits |
| <u>N/A</u> | <u>N/A</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>N/A</u> | <u>N/A</u> | 5. Pavement Design |
| <u>N/A</u> | <u>N/A</u> | <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 The location and minimum number of soil core holes required for this project are as follows: (To be determined when schematic is being completed) |
| <u>N/A</u> | <u>N/A</u> | |
| <u>N/A</u> | <u>N/A</u> | |

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

Services
Provided By:
ENGINEER COUNTY

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| <u>N/A</u> | <u>N/A</u> | 5. Pavement Design (<i>continued</i>) |
| <u>N/A</u> | <u>N/A</u> | c. Embankment and Subgrade (<i>continued</i>) |
| <u>N/A</u> | <u>N/A</u> | (2) Identify, interpret and summarize geologic features that affect engineering design
(PI, Sulfate content, % of lime) |
| <u>N/A</u> | <u>N/A</u> | d. Traffic Data for Pavement Design by STATE |
| <u>N/A</u> | <u>N/A</u> | e. Basic Design Criteria |
| <u>N/A</u> | <u>N/A</u> | f. Life Cycle Cost Analysis(es) |
| <u>N/A</u> | <u>N/A</u> | g. Cost Data |
| <u>N/A</u> | <u>N/A</u> | h. Pavement Material Properties |
| <u>N/A</u> | <u>N/A</u> | i. Rehabilitation Investigations |
| <u>N/A</u> | <u>N/A</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 TxDOT. |

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

SECTION 8 - DRAINAGE
(Function Code 161)

Services
Provided By:
ENGINEER COUNTY

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

<p><u>YES</u> <u>N/A</u></p>	<p>1. Hydrologic Map</p> <p>a. Hydrologic data/discharge determination for outfalls</p>
<p><u>N/A</u> <u>N/A</u></p>	<p>2. Hydraulic Drainage Study and Documentation</p> <p>a. Hydraulic computations and Drainage area maps showing existing conditions and proposed improvements.</p> <p>(1) Storm water detention available within the ROW (linear ft. along side drain ditch).</p> <p>(2) Storm water detention required outside the ROW</p> <p>(3) Culverts</p> <p>(4) Bridge waterways</p> <p>(5) Channels</p> <p>(6) Storm sewers/inlets</p> <p>(7) Pump stations</p> <p>(8) Storm Water Management facilities</p> <p>(9) Other</p> <p>(a) Irrigation Canals/Siphons</p>
<p><u>N/A</u> <u>N/A</u></p>	<p>b. Hydraulic report(s)</p>
<p><u>N/A</u> <u>N/A</u></p>	<p>c. Federal Emergency Management Agency (FEMA) floodway requirements</p>
<p><u>N/A</u> <u>N/A</u></p>	<p>d. Determine impact of proposed drainage plan on the following receiving stream(s)</p> <p>(1) Hidalgo County Drainage District Outfalls</p> <p>(2) All Irrigation District Outfalls impacted</p> <p>(3) IBWC Existing Levee Structure</p>
<p><u>N/A</u> <u>N/A</u></p>	<p>3. Layout, Structural Design and Detailing of Drainage Features</p> <p>a. Culverts</p> <p>(1) New culverts</p> <p>(2) Culvert widening and/or lengthening</p> <p>(3) Culvert replacements</p>
<p><u>N/A</u> <u>N/A</u></p>	<p>b. Storm sewers</p> <p>(1) New storm sewers</p> <p>(2) Modify existing storm sewers</p> <p>(3) Inlets</p> <p>(4) Manholes</p> <p>(5) Trunk lines</p>
<p><u>N/A</u> <u>N/A</u></p>	<p>c. Pump stations</p>
<p><u>N/A</u> <u>N/A</u></p>	<p>d. Subsurface drainage at retaining walls</p>
<p><u>N/A</u> <u>N/A</u></p>	<p>e. Outfall channel(s) within the ROW</p>
<p><u>N/A</u> <u>N/A</u></p>	<p>f. Outfall channel(s) outside the ROW</p>
<p><u>N/A</u> <u>N/A</u></p>	<p>g. Detention Pond(s) within the ROW</p>
<p><u>N/A</u> <u>N/A</u></p>	<p>h. Detention Pond(s) outside the ROW</p>
<p><u>N/A</u> <u>N/A</u></p>	<p>i. Summary of Quantities</p>
<p><u>N/A</u> <u>N/A</u></p>	<p>j. Storm Water Management facilities</p>
<p><u>N/A</u> <u>N/A</u></p>	<p>4. Storm Water Pollution Prevention Plan (SW3P)</p>
<p><u>N/A</u> <u>N/A</u></p>	<p>5. Scour Evaluation - Waterway Structures only (to be completed by Bridge Engineer under FC 170.</p>

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

SECTION 14 - ADDITIONAL RESONSIBILITIES (As applicable)

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 COUNTY 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 COUNTY. The ENGINEER shall coordinate through the COUNTY for the development of this project with any local entity having jurisdiction or interest in the project (i.e., city, county, etc).

Specifications, Special Provisions, Special Specifications

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 COUNTY's Director. Any replacements to the ENGINEER's designated Project Manager/Engineer must be approved by the COUNTY.

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 COUNTY 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 COUNTY 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 COUNTY shall be furnished on 8GB USB flash drives. Each 8 GB flash drive shall have a file titled Table of Contents. The Table of Contents shall indicate the locations of files within the directory structure of the documentation.

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

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

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

CD Tape Required (YES or NO): YES

Proposal Time

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

Office Location

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

<u>Service</u>	<u>Office Location</u>
PS&E	Mission Office
Right-of-Way Acquisition	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)

TASK AND DESCRIPTION	FIRM	2015										2016									
		MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC
Work Authorization No. 1																					
Develop Alternatives & Matrix	L&G																				
Advertise & Conduct Public Meeting	L&G																				
Select TPA	L&G																				
Develop Schematic	L&G																				
Hydrologic Map	L&G																				
TxDOT Review & Revisions	TxDOT																				
TxDOT Schematic Approval	TxDOT																				
Draft Environmental Document, Field Visits, etc...	L&G																				
Submit Final Draft Document	L&G																				
Agency Review & Revisions	TxDOT																				
Environmental Decision	TxDOT																				
Work Authorization No. 2																					
Design Survey	TxDOT																				
Permitted Utility Coordination	TxDOT																				
Outfall Coordination with HICDD #1	TxDOT																				
30% PS&E Completion	TxDOT																				
50% PS&E Completion	TxDOT																				
80% PS&E Completion	TxDOT																				
95% PS&E Completion	TxDOT																				
100% Maps	TxDOT																				
TxDOT Plan Set Approval	TxDOT																				
Let Project (Est. Earliest Date: June 2016)	TxDOT																				
Construction Duration	TxDOT																				
Open To Traffic	TxDOT																				
Work Authorization No. 3																					
Prepare ROW Map	L&G																				
TxDOT Review	TxDOT																				
ROW Map Revisions Per TxDOT Comments	L&G																				
TxDOT ROW Map Approval	TxDOT																				
ROW Release (Dependent on Availability of Funds)	TxDOT																				
Project Administration	L&G																				
Compensable Utility Easement	L&G																				
Coordination with County & TxDOT	L&G																				
Title Commitments	L&G																				
Appraisal Reports	L&G																				
Appraisal Review Reports	L&G																				
Appraisal Update Reports	L&G																				
Approved Values by TxDOT	TxDOT																				
Acquisition Negotiation Offers	L&G																				
Title Curative Process	L&G																				
Title Commitment Disputes	L&G																				
Payments for Parcels	L&G																				
L&G Compensation Support Process	L&G																				
Eminent Domain Proceedings by County	County																				
Title Insurance Policies	L&G																				
Consumption of Outstanding Cases	L&G																				

L&G FUNCTION
ENVIRONMENTAL ASSESSMENT WORK
TxDOT FUNCTION (TIMELINES ESTIMATED)
HIDALGO COUNTY FUNCTION

EXHIBIT D-1

ESTIMATED MAN-HOUR BREAKDOWN

FM 2220 (WARE ROAD) PROJECT
from FM 676 (Mile 5) to FM 676 (Mile 6)

		Senior Project Manager	Senior Engineer	Senior Environmental Scientist /Specialist
CONTRACT RATE		218.04	180.66	152.63
WORK AUTHORIZATION NO. 1				
PHASE I - EA, PUBLIC INVOLVEMENT, SCHEMATIC, HYDROLOGIC DESIGN				
1	Environmental Assessment with TxDOT	120		549
2	Public Involvement with stakeholders and 1 Public Meeting	120		167
3	Archeological and Historical Research (See Page 2 & 2 for Sub Cost)	36		87
4	Engineering Technical Support at Public Meetings with Layouts, etc.	40		60
5	Schematic for Roadway	220	210	81
6	Schematic for 2 Outfalls	46	90	20
7	Hydrological Map for 5 Miles - 2 Outfall Drain Ditches (outfall capacities etc.)	64	110	40
8	Schematic Design for 3-8x8 Siphon w/48" Steel Pipe Bypass	89	160	10
9	Office Surveys for Schematic	40	20	13
10	Preliminary Compensable Utility Identification on Schematic	31	20	9
11	Update Schematic based on comments as provided by TxDOT/FHWA	4	8	5
12	Engineering Technical Support at Public Hearing with Layouts, etc.	40	40	102
13	Public Involvement for 1 Public Hearing	10	20	80
SUB-TOTAL		860	678	1223

EXHIBIT D-1

MAN-HOUR BREAKDOWN

WARE ROAD) PROJECT
676 (Mile 5) to FM 1925

MANHOURS								
Engineer	Senior Environmental Scientist /Specialist	Project Engineer	Senior Engineer Tech	CADD Operator / GIS Analyst	Admin / Clerical	TOTAL HOURS	Sub-Contract Amounts / ROW COST	TOTAL LINE ITEM COST
66	152.63	133.94	93.45	68.53	62.30			
	549	401.25		104	205	1379.25		\$ 183,600.72
	167	163.25		107	12	569.25		\$ 81,600.03
	87	47.25	14	15.5	24	223.75	\$ 33,678.00	\$ 31,322.63
	60	60.25		61	22	243.25		\$ 31,500.22
0	81	801.25	830	659	81	2882.25		\$ 333,360.93
0	20	212	200	176.25	24	768.25		\$ 90,000.73
0	40	240	220	196	31	901		\$ 108,000.14
0	10	321.25	242	278.25	7.25	1107.75		\$ 135,000.73
0	13	101	82	89.5	5.75	351.25		\$ 42,001.49
0	9	120.25	161	157.25	5.25	503.75		\$ 54,001.26
0	5	79.25	52	162.25	5.25	315.75		\$ 30,000.80
0	102	66.25		65.25	2.25	315.75		\$ 45,001.54
0	80	60		62	5	237		\$ 30,600.76
78	1223	2673.25	1801		429.75	9798.25	\$ 33,678.00	\$ 1,195,991.97

Sub-Total Manhours Fee with Subconsultant Fee:	\$ 1,229,669.97
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* TOTAL PROJECT FEE:	\$ 1,229,660.00
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*Rounded Fee

**Cultural Resource Investigations
FM 2220 (Ware Road): From Mile 5 to FM 1925
Hidalgo County, Texas**

EXHIBIT D-1

Cost Breakdown										
FM 2220 (Ware Road): From Mile 5 to FM 1925										
LABOR	Task						Total	Units	Unit Price	Cost
	PCR	Research Design	Field Survey	Draft Report	Final Report	Mgmt				
Principal						2	2	hour	\$216.00	\$ 432.00
Historical Architect	8			2			10	hour	\$133.00	\$ 1,330.00
Architectural Historian		24	24	32			80	hour	\$104.00	\$ 8,320.00
Historian II	16			20			36	hour	\$ 82.00	\$ 2,952.00
Archeologist V	4	4		10	2		20	hour	\$128.00	\$ 2,560.00
Archeologist III	8	6	48	34	4		100	hour	\$ 73.00	\$ 7,300.00
Archeologist I		1	48	12			61	hour	\$ 58.00	\$ 3,538.00
GIS Specialist	8	6		12			26	hour	\$ 82.00	\$ 2,132.00
Admin./Document Production Spvr				6	4	4	14	hour	\$ 88.00	\$ 1,232.00
TOTAL LABOR										\$ 29,796.00
EXPENSES	PCR	Research Design	Field Survey	Draft Report	Final Report	Mgmt	Total	Units	Unit Price	Cost
Air fare (hist survey)			2				2	round trip	\$400.00	\$ 800.00
Rental car (hist survey)			2				2	day	\$ 70.00	\$ 140.00
Fuel for rental car			10				10	gallon	\$ 3.75	\$ 37.50
Mileage (archeo survey)			800				800	mile	\$ 0.56	\$ 448.00
Lodging			12				12	night	\$ 90.00	\$1,080.00
Site recordation				2			2	site	\$ 49.00	\$ 98.00
Meal Allowance			12				12	day	\$ 46.00	\$ 552.00
Copies, color	5	20	50	300	300	10	685	each	\$ 1.00	\$ 685.00
Copies, b/w	5	20	10	150	200	30	415	each	\$ 0.10	\$ 41.50
TOTAL EXPENSES										\$3,882.00
TOTAL										\$33,678.00

APPROVED

AI-49873

Purchasing Department 25. D. 1.

CC - REGULAR

Meeting Date: 06/02/2015

Submitted For: Marty Salazar, PURCHASING DEPT.

Submitted By: Letty Saenz, PURCHASING DEPT.

Department: PURCHASING DEPT.

Information

CAPTION

Acceptance and approval to execute the final form of a Professional Engineering Agreement with L&G Consulting Engineers, Inc. d/b/a L&G Engineering, for: "Job Specific" Project: FM 2220 (Environmental Assessment, Public Involvement and Schematic for the "Ware Road (FM 2220) (from FM 676 (Mile 5) to FM 1925" project for Hidalgo County Precinct No. 4, as (approved by CC for negotiations on CC 03/31/15);

✓ B. Acceptance and approval of Work Authorization No. 1 (with an estimated cost of \$ 1,229,660.00) as submitted by project engineer, L&G Engineering for engineering services for: "Job Specific" Project: FM 2220 (Environmental Assessment, Public Involvement and Schematic for the "Ware Road (FM 2220) (from FM 676 (Mile 5) to FM 1925" project for Hidalgo County Precinct No. 4, under agreement#C-15-136-06-02.

BACKGROUND

Agreement# C-15-136-06-02-L&G Engineering
WA#1-C-15-136-06-02-L&G Engineering

Fiscal Impact

FISCAL YEAR: 2015

ACCT. #: 5-1315-431-00+124-157-0-721

FUNDS AVAILABLE Y/N?: Y **MATCHING FUNDS Y/N?:** N

BUDGETARY IMPACT:

Funds available as of 5/29/15 --> \$ 654,830.00

Attachments

Agreement# C-15-136-06-02-L&G Eng-FM 2220 (Ware Rd Proj)

WA#1-C-15-136-06-02-L&G Eng-FM 2220 (Ware Rd Proj)

legals approval

Form Review

Inbox	Reviewed By	Date
Purchasing Department	Marty Salazar	05/29/2015 01:18 PM
Budget & Management	Veronica Ortiz	05/29/2015 01:29 PM

1. **AI-49873** A. Acceptance and approval to execute the final form of a Professional Engineering Agreement with **L&G Consulting Engineers, Inc. d/b/a L&G Engineering**, for: "**Job Specific**" Project: **FM 2220 (Environmental Assessment, Public Involvement and Schematic for the "Ware Road (FM 2220) (from FM 676 (Mile 5) to FM 1925"** project for **Hidalgo County Precinct No. 4**, as (approved by CC for negotiations on CC 03/31/15);

APPROVED

B. Acceptance and approval of **Work Authorization No. 1** (with an estimated cost of \$ **1,229,660.00**) as submitted by project engineer, **L&G Engineering** for engineering services for: "**Job Specific**" Project: **FM 2220 (Environmental Assessment, Public Involvement and Schematic for the "Ware Road (FM 2220) (from FM 676 (Mile 5) to FM 1925"** project for **Hidalgo County Precinct No. 4**, under agreement#**C-15-136-06-02**.

2. **AI-49870** A. Requesting authority to purchase one [1] KUB M9960HFC TRACTOR [more specifically described in supporting documentation attached herein] from Amigo Power Equipment through their awarded contract under GSA "Disaster Recovery Purchasing" category with contract #GS30F0018W in the amount of \$37,696.00;

B. Authority to purchase a Hydraulic Side Arm Ditcher [for bar ditch clearing/maintenance purposes] through the County memberships/participation in any qualified cooperative purchasing program awarded vendor; OR, in the alternative,

C. Authority to advertise a sealed bid for the purchase of a bar ditch clearing/maintenance equipment for Hidalgo County Precinct #4 [with specifications drafted through both precinct and purchasing].

3. **AI-49883** Action to exercise Hidalgo County's option to suspend AIA Contract No. C-13-072A-11-19 with Couric Enterprises, LLC dba Foremost Construction as stated in Section 14.3 under the AIA-201 General Conditions for "Hidalgo County Precinct No. 4 -Construction of a Community Resource Center in San Carlos" by providing/forwarding a written letter to architect of record Mata Garcia Architects, LLP, to proceed to notify contractor via formal letter citing contract section 14.3 Suspension by the Owner for convenience, effective after Pay Application No. 8 is approved by Commissioners' Court.

F. Health & Human Services Dept.



**AGENDA
HIDALGO COUNTY
COMMISSIONERS COURT
MEETING
June 2, 2015
9:30 A.M.**

NOTICE is hereby given in accordance with Chapter 551, Texas Government Code, that a SPECIAL MEETING of the Commissioners' Court will be held at Edinburg Council Chambers, 415 W. University Drive, Edinburg, Hidalgo County, Texas. Discussion and possible action relating to the following business will be transacted:

- 1. Roll Call**
- 2. Pledge of Allegiance**
- 3. Prayer**
- 4. Approval of Consent Agenda**
- 5. Open Forum**
- 6. County Judge's Office:**
 - A. AI-49918** Resolution in honor of Irma Pena for 35 years of service to the county's Head Start Program
 - B. AI-49920** Resolution in honor and support of the Edinburg High School Bobcats baseball team for their recent district and regional championships.
 - C. AI-49834** Discussion, consideration, and possible action on letter of support for the Hidalgo County Regional Mobility Authority SH 365 project.
- 7. Executive Officer - Valde Guerra:**

22.

Purchasing Department - Marty Salazar:**Notes:**

A. FOR ANY CONTRACT(S) AWARDED AND APPROVED UNDER THIS AGENDA, EXECUTED COPIES OF THE CONTRACT(S) WILL BE AVAILABLE ON THE COUNTY INTRA-NET WEBSITE AND WILL BE FOWARDED VIA E-MAIL, FAX OR HAND DELIVERED TO HIDALGO COUNTY AUDITOR'S OFFICE.

B. ANY AND ALL REQUESTS FOR PAYMENT(S) APPROVED WILL BE SUBJECT TO COUNTY AUDITORS PROCESSING PROCEDURES INCLUDING AUTHORITY FOR COUNTY TREASURER TO ISSUE PAYMENT(S)/CHECK(S).

A. Hidalgo County

1. **AI-49839** Presentation of responsible vendor submitting the lowest and best bid [detailed in tabulation sheet contained herein] meeting all specifications/requirements for the purpose of award and approval of contract for: RFB titled: Hidalgo County-"General Printing Services & Related Supplies" through project No.: 2015-029-05-06-SMA.

B. Pct. 1

1. **AI-49924** Authority with approval to purchase an RCT-350 Broce Broom Sweeper w/Water Tank from responsible vendor submitting the lowest and best requested/submitted sealed quotes [meeting specifications/requirements] to Nueces Power Equipment in the amount of \$45,000.00 [inasmuch as supporting documentation reflects no expenditures YTD under NIGP commodity code #765-77] with Project #2015-211-OGG.
2. **AI-49659** Presentation of responsible vendor submitting the lowest and best bid [detailed in tabulation sheet contained herein] meeting all specifications and/or requirements for the purpose of award and approval of contract for RFB titled: "Hauling Services for Millings" - Precinct 1.
3. **AI-49801**
 - A. Requesting exemption from competitive bidding requirements under the Texas Local Government Code, Section 262.024 (A) (4) a professional appraisal services.
 - B. Presentation of scoring grid (for the purpose of ranking by CC) of the firms graded and evaluated through the County's approved "pool" of professional appraisal services (on an as needed basis) for Pct No.1

	Harvey L. Heerssen HLH Appraisal Services	David Nittler Appraisal & Consulting	George J. Salazar
Scores	76	78	82
Ranking			

C. Authority for the Purchasing Department to negotiate a professional contract with the No. 1 ranked firm _____ for professional appraisal services (on an as needed basis) for Pct No.1

4. **AI-49884** A) Acceptance and approval of an Interlocal Cooperation Agreement [ILA] between County of Hidalgo and City of Weslaco for the provision of joint efforts in connection with the improvements of Eighteenth [18th] Street from FM 1015 to South Airport and South Airport from 18th Street to Mile 5 1/2 North and Mile 5 1/2 North from South Airport Drive to Pleasantview Drive; and

B) Acceptance and approval of Interlocal Agreement Project: Improvements to 18th Street from Farm-to Market 1015 to South Airport Drive, South Airport Drive from 18th Street to Mile 5 1/2 North and Mile 5 1/2 North from South Airport Drive to Pleasantview Drive; whereas the County and City agree to share the costs based on territory pertaining to each authority as detailed in the agreement thus pursuant to the approval of the Interlocal Cooperation Agreement as stated above.

C. Pct 2

1. **AI-49921** Requesting authority to advertise with approval of RFB plans and specifications developed by Raul Sesin, P.E., Hidalgo County Drainage District #1 for: Hidalgo County Precinct No. 2 -"Sioux Road Improvements (from I Road to 3,500 Feet East of Raul Longoria Road)"-RFB No. 2015-209-06-24-MSS.

D. Pct. 3

1. **AI-49916** Acceptance and approval of Work Authorization No. 1 (with an estimated cost of \$6,692.97) as submitted by project engineer, L&G Engineering for engineering services for "Construction Material Testing Services for Mile 9 1/2 Paving Improvements (from Conway Ave. to Trosper Rd.)" Project for Hidalgo Co. Pct 3 through Contract #C-14-357-10-28.

E. Pct. 4