

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

1. 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 Supplement.

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 _____, 2025.

ENGINEER:
L&G CONSULTING ENGINEERS, INC.

BY: 
Jacinto Garza P.E., President

OWNER:
HIDALGO COUNTY

BY: _____
Richard F. Cortez, County Judge

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 1-PROJECT DESCRIPTION

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

COUNTY/CITY: Hidalgo County Pct#1

CONTROL: _____

PROJECT/DESCRIPTION: Additional Archaeological Surveys and Noise Analysis

LENGTH: 3 Miles

HIGHWAY: Nolana Loop Project

LIMITS: FROM: FM 493 to FM 88

PROJECT CLASSIFICATION

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

- Surface Treatment
- Overlay
- Rehabilitation Existing Road (Scarify & Reshape)
- Convert Non-Freeway to Freeway
- Widen Freeway
- Widen Non-Freeway
- New Location Toll Freeway
- New Location Non-Freeway
- Interchange (New or Reconstruct)
- Bridge Widening or Rehabilitation
- Bridge Replacement
- Upgrade to Standards - Freeway
- Upgrade to Standards - Non-Freeway
- Miscellaneous Studies (Use Function Code 110 for All Tasks)

ENGINEER shall mean L&G Engineering.

STATE shall mean Texas Department of Transportation.

LPA shall mean Local Public Agency Hidalgo Co.

SURVEYOR shall mean ROWSS.

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 LPA

- | | | |
|------------|------------|---|
| | | 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. |
| | | a. Environmental Assessments |
| <u>N/A</u> | <u>N/A</u> | (1) An Environmental Assessment shall be prepared, anticipating a Categorical Exclusion. |
| <u>N/A</u> | <u>N/A</u> | (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. |
| <u>YES</u> | <u>N/A</u> | (3) A Re-Evaluation to the FONSI shall be prepared to address design changes. |
| | | b. Environmental Impact Statement |
| <u>N/A</u> | <u>N/A</u> | (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. |
| <u>N/A</u> | <u>N/A</u> | (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. |
| | | 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. |
| <u>N/A</u> | <u>N/A</u> | a. A public involvement meeting(s) and public hearing shall be scheduled, coordinated and conducted. |
| <u>N/A</u> | <u>N/A</u> | 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 LPA, shall be provided. |
| <u>N/A</u> | <u>NO</u> | c. A Notice of Availability (NOA) shall be published by the LPA upon approval of the environmental decision. |
| | | 3. Technical Reports |
| | | All technical reports shall be prepared in accordance with TxDOT’s environmental rules and guidelines. |
| <u>NO</u> | <u>NO</u> | 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. |
| <u>NO</u> | <u>NO</u> | b. Biological Technical Report |
| | | The previously approved Species Analysis Form shall be updated as per the Memorandum of Understanding (MOU) with the Texas Parks and Wildlife Department (TPWD) and shall be prepared in accordance with the STATE’S Biological Guidelines. |
| <u>N/A</u> | <u>N/A</u> | c. Wetland Permits |
| | | Two permit applications shall be prepared and all work efforts and deliverables shall be in accordance with the current TxDOT and the U.S. Army Corps of Engineers policies and procedures. Permits shall include all of the necessary maps and exhibits. |

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

Services Provided By:		
<u>ENGINEER</u>	<u>LPA</u>	
<u>NO</u>	<u>N/A</u>	(1) Historic Structure Studies A records search, project coordination request, and reconnaissance survey shall be performed, and documentation prepared regarding identification efforts, National Register eligibility and potential impacts to historic properties in accordance with the state's historic structure requirements.
<u>YES</u>	<u>N/A</u>	(2) Archeological Studies A project coordination request, an archeological reconnaissance, and an archeological survey shall be conducted to determine if known archeological sites are present within the area of the change in the alignment; and to identify the need (if any) to perform additional archeological investigations. The results shall be provided as a Technical Report.
<u>NO</u>	<u>N/A</u>	d. Community Impact Analysis A community impact analysis shall be prepared in accordance with the STATE'S Community Impact Guidelines.
<u>NO</u>	<u>N/A</u>	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.
<u>NO</u>	<u>N/A</u>	f. Indirect and Cumulative Impacts Analysis An indirect and cumulative impacts analysis shall be prepared in accordance with the STATE's guidelines.
<u>YES</u>	<u>N/A</u>	g. Noise Analysis A noise analysis shall be prepared to address the changes in alignment and comply with new regulations, including consideration and evaluation of noise mitigation, in accordance with the STATE'S Noise Guidelines. The noise analysis shall be provided as a Technical Report.
<u>N/A</u>	<u>N/A</u>	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.
<u>YES</u>	<u>N/A</u>	5. General Guidelines for Preparation of Environmental Documents a. All technical reports will be submitted electronically to TxDOT through their FTP site.

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

Document and Information Exchange

Technical Reports shall be provided to the LPA in electronic format.

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>
Environmental Document	Mercedes Office

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



Proposal
Additional Archeological Survey
Nolana Loop from FM 1423 to FM 88
Hidalgo County, Texas

PROJECT DESCRIPTION

L&G Engineering (L&G) has requested a scope of work and cost estimate from AmaTerra, ERG Texas Services (ERG) to conduct additional archeological survey along Nolana Loop between FM 1423 and FM 88 where design updates are planned. The area to be surveyed is along approximately three miles which were largely surveyed in 2007 by SWCA where new design plans deviate from the original survey area. The project is being funded by using funds from the Federal Highway Administration (FHWA) and TxDOT will acquire the proposed new ROW associated with the project.

PROJECT SCOPE

Task 1: Archeological Survey

- A) ERG will prepare an Antiquities permit application and submit that to TxDOT for review and approval prior to submittal to the THC.
- B) Once a permit has been issued ERG will conduct an archeological survey of the unsurveyed portions of the Nolana Loop project. The survey will include visual inspection, shovel testing, and backhoe trenching to assess and characterize archeological sites within the APE. It is estimated that approximately 45 shovel tests and no more than 16 backhoe trenches will be excavated in support of the project. Archeological sites would be investigated through additional shovel tests and trenches, as warranted. All archeological sites within the APE will be recorded at the Texas Archeological Research Laboratory. Archeologists will not collect any artifacts during the survey.
- C) ERG will prepare a professional report documenting the results of the survey. The report will adhere to TxDOT's *Review Standards for Archeological Survey Reports* and include a management summary, description of the undertaking and the APE, relevant background sections, a summary of results, and explicit recommendations regarding eligibility of archeological sites within the APE. To satisfy the condictions of the Antiquities Permit, ERG will curate all notes and records with the final report at a state recognized curatorial facility.

SCHEDULE

To be determined in consultation with Client.

ASSUMPTIONS AND CONDITIONS

The proposal is valid for six months. After that period, ERG will need to re-evaluate the scope and cost. The following is a list of assumptions on which the project costs are based. Any work not discussed in the tasks above may be considered outside of this scope and may require a supplemental agreement or fee adjustment.

- ERG assumes that no changes will be made to the current project footprint, and all geospatial data on hand as of 3/25/2025 will be current when the field survey is scheduled.

**Additional Archeological Survey
Nolana Loop from FM 1423 to FM 88 in Hidalgo County, Texas**

- Relevant comments will be addressed. It is assumed that no more than one draft copy and one final copy of the survey reports being submitted to L&G will be produced in electronic format in PDF and Word formats.
- One round of comments on the Draft Report is anticipated from L&G and associated agency reviewers. All comments are assumed to be minor.
- Access to private properties would be obtained by others prior to ERG's field survey.
- The proposed survey will be conducted in a single mobilization, and any additional mobilizations would be subject to a supplemental scope and fee.
- Should backhoe trenching be necessary L&G will provide a backhoe and operator.
- The scope does not include mitigation for adverse effects, development of agreement documents, Section 4(f) evaluations, or other services beyond establishing Section 106 NRHP effect.

COMPENSATION

Client will compensate ERG on a time and materials basis of **\$30,321.75**. ERG will invoice L&G monthly based on percentage of completion. A combined cost breakdown is provided below.

L&G - Nolana Loop Additional Survey								
	Project Startup, Project Management & Admin	Archeology				Total	Rate	Total cost
		permit	prefield and field work	draft report	final and curation			
Principal	2					2	\$289.00	\$ 578.00
Program Director	2					2	\$172.00	\$ 344.00
Project Manager	8					8	\$149.00	\$ 1,192.00
Archeologist VI/ Sr. Principal Investigator						0	\$136.00	\$ -
Archeologist V/ Principal Investigator/Lab Director		6	52	8	8	74	\$108.00	\$ 7,992.00
Archeologist IV/Project Arch.		8		40	6	54	\$99.00	\$ 5,346.00
Archeologist III/Field Director			56	6	4	66	\$86.00	\$ 5,676.00
GIS Specialist		2		2	2	6	\$131.00	\$ 786.00
GIS Technician/Illustrator/Drafter		6	2	6	2	16	\$83.00	\$ 1,328.00
Admin./Accounting	8					8	\$126.00	\$ 1,008.00
Document Production Spvr/Editor				8	4	12	\$81.00	\$ 972.00
Clerical			2		2	4	\$75.00	\$ 300.00
	\$ 3,122.00	\$ 2,200.00	\$ 10,748.00	\$ 6,748.00	\$ 2,704.00			
Subtotal	\$ 3,122.00				22,400.00			\$ 25,522.00
meals w/ overnight			10			10	\$ 68.00	\$ 680.00
meals w/o overnight			2			2	\$ 51.00	\$ 102.00
lodging (20% tax included)			10			10	\$ 132.00	\$ 1,320.00
mileage			750			750	\$ 0.655	\$ 491.25
Sub-meter GPS			12			12	\$ 100.00	\$ 1,200.00
TARL site registration				2		2	\$ 110.00	\$ 220.00
Curation-CAS					2	2	\$ 275.00	\$ 550.00
Backhoe rental						0	\$2,500.00	\$ -
Copies, B&W	20	20	50	75	500	665	\$ 0.10	\$ 66.50
Copies, color	20	10	15	25	100	170	\$ 1.00	\$ 170.00
	\$ 22.00	\$ 12.00	\$ 3,813.25	\$ 252.50	\$ 700.00			
Subtotal	\$ 22.00				4,777.75			\$ 4,799.75
TOTAL	\$ 3,144.00				27,177.75			\$ 30,321.75

EXHIBIT "C" PROJECT DEVELOPMENT SCHEDULE

CSJ: 0921-02-169
Nolana Loop (S2-4)
From FM 907 To FM 88
Length = 7.6 miles

TASK AND DESCRIPTION	FIRM	2023				2024				2025												2026				2027				2028			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Advanced Funding Agreement																																	
TxDOT Executes AFA - Prelim. Eng. & PS&E (2006)	COMPL																																
TxDOT Executes AFA - ROW, Const. & CE (2019)	COMPL																																
TxDOT Executes AFA Amend #1 - Prelim. Eng. & PS&E (2020)	COMPL																																
AFA Amend #1 - ROW, Const. & CE	TxDOT																																
AFA Amend #2 - ROW, Const. & CE	TxDOT																																
Functional Classification (Victoria Rd to FM 88)																																	
Functional Classification	MPO																																
Phase I: Schematic, Environmental, Traffic, Survey, ROW Mapping & 30% PS&E																																	
Segments 2 - 4 (FM 907 - FM 88)																																	
Environmental (Segments 2-4: FM 907 - FM 88)																																	
Environmental Re-Evaluation (2022)	COMPL																																
Environmental Revision	L&G																																
MAPO (NOC Letters sent out February 2025)	L&G																																
Conduct Noise Analysis and prepare report	L&G																																
Conduct Archeological Surveys and prepare Report	L&G																																
Approval of Re-Evaluation	TxDOT																																
Traffic (Segment 4: FM 493 - FM 88)																																	
Traffic Signal Warrants	L&G																																
Projected Traffic	L&G																																
Projected Traffic TxDOT Approval	TxDOT																																
Surveying (Segment 4: FM 493 - FM 88)																																	
Field Surveys, DTM, Recover Existing ROW	L&G																																
Subsurface Utility Engineering (Level A)	L&G																																
Hydrologic & Hydraulic Report (Segment 4: FM 493 - FM 88)																																	
H&H Modeling and Report	L&G																																
Report Approval (Spring 2025)	TxDOT																																
Schematic (Segment 4: FM 493 - FM 88)																																	
Schematic Approved (2018)	COMPL																																
Schematic Revision (2024)	L&G																																
Schematic Approval (2025)	TxDOT																																
Segment 4A (Mile 6 W - FM 88)																																	
ROW Mapping (Segment 4A: Mile 6 W - FM 88)																																	
Prepare ROW Map (Est. 10 Parcels & 8 Easement Parcels)	L&G																																
TxDOT Review & Parcel ID Assignment	TxDOT																																
PS&E (Segment 4A: Mile 6 W - FM 88)																																	
30% PS&E Completion	L&G																																
Phase II: ROW Map, Compensable Utilities, PS&E																																	
PS&E (Segment 4A: Mile 6 W - FM 88)																																	
Compensable Utility Oversight	L&G																																
60% PS&E Completion	L&G																																
90% PS&E Completion	L&G																																
95% PS&E Completion	L&G																																
100% PS&E Completion	L&G																																
TxDOT Plan Set Approval	TxDOT																																
Phase III: ROW Acquisition & Construction Oversight																																	
ROW Acquisition																																	
Project Administration	L&G																																
Title Commitments	L&G																																
Appraisal Reports	L&G																																
Appraisal Review Reports	L&G																																
Acquisition Negotiation Offers	L&G																																
Title Curative Process	L&G																																
Payments for Parcels	L&G																																
Eminent Domain Proceedings	COUNTY																																
Title Insurance Policies	L&G																																
Construction Oversight																																	
Advertise for Bids, Bid Analysis & Contract Award	COUNTY																																
Let Project (MPO FY2028)(LET May 2028)	COUNTY																																
(Dependent on Availability of Funds)																																	



REVISED - EXHIBIT D-1
ESTIMATED MAN-HOUR BREAKDOWN

NOLANA LOOP PROJECT WA#1 ~ from FM 493 to FM 88

		Senior Project Manager	Senior Engineer	Project Engineer	Senior Environmental Scientist /Specialist	Senior Engineer Tech	Environmental Planner / Specialist	Admin / Clerical	TOTAL HOURS	Sub-Contract Amounts / ROW COST	TOTAL LINE ITEM COST	*ROUNDED TOTAL LINE ITEM COST
CONTRACT RATE		292.99	229.45	197.68	208.27	141.20	102.37	77.66				
WORK AUTHORIZATION NO. 1 - WITH HIDALGO COUNTY												
PHASE I - ROW Map, Surveys, Hydraulic Report, Re-Evaluation of EA, Update Schematic & 30% PS&E												
120	Re-evaluation (Biological, Archeological and Noise) of the Old Enviromental and correct intersections, outfalls, possible locations, add bicycle lanes etc..	31			205		295	39	570.00		\$ 85,005.93	\$ 85,000.00
120	Right of Entry for revaluation of revised Outfall Property Owners and revised roadway Parcels	16			52		79	18	165.00		\$ 25,002.99	\$ 25,000.00
110	Update the Roadway Schematic to include Outfalls, Hydrology, property owners, etc	25	133	193		227		19	597.00		\$ 109,521.78	\$ 109,520.00
161	Hydrologic Report for TxDOT and FHWA	25	133	203		212		27	600.00		\$ 110,001.86	\$ 110,000.00
163	Traffic Projections for entire Segment 4	15	31	40		69		11	166.00	\$ 34,990.96	\$ 65,003.02	\$ 65,000.00
102	Level of Service Analysis for entire Segment 4	18	71	84		97		21	291.00	\$ 61,509.38	\$ 115,006.53	\$ 115,000.00
601	Compensable Utility IDENTIFICATION ON THE SCHEMATIC (Level B,C,D)	18	36	70		79		19	222.00		\$ 40,001.96	\$ 40,000.00
130	ROW Map (Estimated 6 Parcels and 4 HP Gas & 1 Irrig Easements)	16	27	61		81		21	206.00	\$ 72,000.00	\$ 108,009.53	\$ 108,000.00
150	Field Surveys for Design and Construction OF ROADWAY & OUTFALLS	27	226	278				19	550.00	\$ 123,809.00	\$ 240,006.01	\$ 240,000.00
150	SUE Investigations (Est. 20 holes per mile at \$1500/hole)	16	45	75				15	151.00	\$ 31,000.00	\$ 62,003.99	\$ 62,000.00
160	Soil Core Hole Drilling for Pavement Designs	16	41	75				14	146.00		\$ 30,008.53	\$ 30,000.00
160	Pavt Design for Project with TxDOT and FHWA Approval including 10-ft cores	23	86	136		175		25	445.00		\$ 80,007.45	\$ 80,000.00
160	30% PS&E for Roadway and outfalls (8% Engineering Fee)	33	522			612		41	1208.00		\$ 219,040.03	\$ 219,040.00
164	Project Management	38	248	284		380		28	978.00		\$ 180,008.82	\$ 180,000.00
SUB-TOTAL		317	1599	1499	257	1932	374	317	6295	\$ 323,309.34	\$ 1,468,628.43	\$ 1,468,560.00

Sub-Total Manhours Fee with Subconsultant Fee:	\$ 1,468,628.43
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* TOTAL PROJECT FEE:	\$ 1,468,560.00
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*Rounded Figure

REVISED - EXHIBIT D-1
ESTIMATED MAN-HOUR BREAKDOWN

NOLANA LOOP PROJECT WA#1 ~ from FM 493 to FM 88

	Senior Project Manager	Senior Engineer	Project Engineer	Senior Environmental Scientist /Specialist	Senior Engineer Tech	Environmental Planner / Specialist	Admin / Clerical	TOTAL HOURS	Sub-Contract Amounts / ROW COST	TOTAL LINE ITEM COST	*ROUNDED TOTAL LINE ITEM COST		
CONTRACT RATE													
	292.99	229.45	197.68	208.27	141.20	102.37	77.66						
SUPPLEMENTAL NO. 1 to WORK AUTHORIZATION NO. 1 - WITH HIDALGO COUNTY													
PHASE I - To provide Archeological Survey to address alignment modifications and to conduct new Noise Analysis to address alignment modifications													
120	Conduct new Noise Analysis to address alignment modifications with updated traffic data and comply with new guidelines.												
	9			27		38	11	85.00		\$ 13,004.52	\$ 13,000.00		
120	Archeological Survey to address alignment modifications										\$ 30,321.75	\$ 30,321.75	\$ 30,321.75
164	Project Management and assist with fieldwork										\$ 8,006.04	\$ 8,000.00	
SUB-TOTAL													
	14	0	0	42	0	60	26	142	\$ 30,321.75	\$ 51,332.31	\$ 51,321.75		

Sub-Total Manhours Fee with Subconsultant Fee:	\$ 51,332.31
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* TOTAL PROJECT FEE:	\$ 1,519,881.75
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*Rounded Figure