HIDALGO COUNTY
Professional Engineering Services Agreement
No. C-25-0478-09-16

WORK AUTHORIZATION NO. 1

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of the Professional Engineering Services Agreement No. **C-25-0478-09-16**, incorporated herein by reference, for the **"Professional Engineering Services for Schunior Road Project"** made by and between HIDALGO COUNTY, action herein by and through the Commissioner's Court, hereinafter called the "**Owner**," and **SAMES, Inc.**, hereinafter called "**Engineer**".

PART 1. SCOPE OF WORK

The purpose of this Work Authorization is for the **Engineer** to provide specific management and engineering services for the development of the project

The **Engineer** is to provide the scope of Services as required by the Agreement with Owner.

The scope of services to be provided by the **Engineer** is identified in **Attachment "A" –***"Scope of Services to be provided by Engineer"* attached hereto and incorporated by reference.

PART 2. ESTIMATED COST

The estimated cost for services under this Work Authorization is **$1,793,835.00**. This amount is based upon the costs outlined in the **Attachment "B" –***"Fee Proposal"* attached hereto and incorporated by reference.

PART 3. PAYMENT

Compensation and payment to the Engineer for the services established under this Work Authorization shall be made in accordance with the **Professional Engineering Services** Agreement No. **C-25-0478-09-16** between the **Owner** and the **Engineer**.

PART 4. FUNDING

This **Work Authorization No.1** shall be funded through funding source:
Account No.
Requisition Number _____ **(MUST BE INCLUDED AFTER CC APPROVAL)**

PART 5. PERIOD OF SERVICE

This Work Authorization shall become effective on the date of final acceptance of the parties hereto, and terminate **upon completion of the scopes of the Work Authorization, within the limits of Agreement No. C-25-0478-09-16, provided in this Work Authorization; or on (DATE)**. ***If applicable***: Engineer shall conform to the approved "Work/Project Schedule", attached hereto and incorporated by reference herein as **Attachment "C"**.

PART 6. RESPONSIBILITIES AND OBLIGATIONS
This Authorization does not waive the parties' responsibilities and obligations provided under **Agreement No. C-25-0478-09-16**

PART 7. ACCEPTANCE AND APPROVAL
This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on **September 16th, 2025** as indicated below and effective as of **16** day of **September, 2025.**

EXECUTED as of the day and year first written above.

APPROVED BY COMMISSIONERS' COURT ON September 16th, 2025.

Agenda Item No. 100682

Executive Office: _____

ENGINEER:
SAMES, Inc.

_____
Samuel D. Maldonado, PE, RPLS, CEO

COUNTY:
COUNTY OF HIDALGO

_____
Hon. Richard F. Cortez, County Judge

ATTEST:

_____
Arturo Guajardo, Jr., County Clerk

LIST OF ATTACHMENTS:
Attachment "A" – *Scope of Services to be provided by Engineer*
Attachment "B" – *Fee Proposal*
Attachment "C" – *Approved Work/Project Schedule (If applicable)*

ATTACHMENT A

PROJECT SPECIFIC SCOPE OF SERVICES TO BE PROVIDED BY ENGINEER

ATTACHMENT "A"

Scope of Services by the Engineer

The work to be furnished by the **Engineer** shall consist of preliminary engineering services for improvements in relation to Schunior Road from Jackson Road to Hoehn Road and Hoehn Road from Schunior Road to University Drive (SH 107). The work shall be developed in accordance with the **Owner**, TxDOT, Federal, and all applicable design requirements, standards and in a format acceptable to the **Owner** and the reviewing agencies.

The Engineer shall render specific management and engineering services for the development of the **Project** and fulfillment of this Agreement as follows (The list below details the major components required for the project, but is not intended to be an all-inclusive list of all services provided/required):

a. GENERAL PROJECT MANAGEMENT

- Project/program schedule development and management
- Engineer to attend local public hearings, policy meetings and upon request attend Owner staff meetings. The Engineer shall assist the Owner, as requested, at meetings with Federal, TxDOT, or other necessary entities as required.
- Planning & Assessment - Review, verify and gather data necessary to proceed with design of the Project.
- Perform interviews and meetings with the Owner's staff to identify and prioritize project selection and gather preliminary design information for the approved project.
- Project adjacent utility stakeholder coordination.
- Project funding coordination and preparation of required support documentation to achieve project construction funding.

b. RIGHT-OF-WAY MAPPING

- Provide for the necessary right-or-way research, mapping, surveying, and all services related to the development of a right-of-way map.
- Prepare parcel sketches and field notes of all parcels requiring acquisition. Revisions to be done promptly at no cost to the owner

c. FIELD SURVEYING

- Vertical and Horizontal Control. Establish and stake the Project control centerline (baselines) and offset for the Project or portions of the Project. Establish vertical control by looping all benchmark (BM) circuits and tie to monument permanent BM elevation. BM's are to be set at 1,000 ft. maximum intervals using Global Positioning System (GPS) survey, and in a location that will be undisturbed by future construction.
- Topography. Obtain topographic information surveyed for the length of the control centerline, as required; provide location (station and offset), size, height, and depth and/or length and description of topographic features; to include, but not limited to the following: driveways, signs, light poles, mail boxes, all fences (including metal beam guard fence and

turndowns), utilities (type, owner, location, and depth), riprap, existing right-of-way lines, private property lines, county and/or city limits, etc.

d. SCHEMATIC DESIGN

- Obtain geotechnical data for pavement designs and to determine subsurface conditions.
- Develop pavement designs, including cost data, pavement material properties, and pavement drainage.
- Identify preliminary alignments; develop typical sections and design centerline.
- Develop hydraulic design criteria in accordance with Local Municipal or TxDOT guidelines.
- Verify FEMA FIRM zones and requirements.
- Develop basic schematic layout of improvement to determine right-of-way requirements.

e. ACQUISITION SERVICES

- Management of the land acquisition services process including offers, negotiations, appraisals and information packages in accordance with Local and State standards.

f. ENVIORNMENTAL DOCUMENT & PUBLIC COMMENT

- Complete the environmental review record checklist document for the projects in accordance with the National Environmental Policy Act (NEPA), applicable TxDOT requirement Code(s) of Federal Regulations for a Categorically Excluded Project in anticipation of a Finding of No Significant Impact (FONSI) as identified by the NEPA process. Owner will assist in coordinating and gathering data as necessary.

g. UTILITY COORDINATION & INVENTORY MAPPING

- The Engineer will develop utility layout sheets from schematics and incorporate utility information; identify all existing overhead and above ground utilities; identify all existing underground utilities; document all information on utility layout sheets; identify potential conflicts. The Engineer will coordinate utility adjustments with Owner and all affected utility owners as necessary. The layout sheets will be reproducible drawings (11”x17”) with the following information:

  a) Existing and/or proposed right-of-way lines
  b) Benchmark data
  c) Existing and proposed drainage system(s)
  d) Location and size of utility (plan/profile view)
  e) Limits of existing casing pipe
  f) Name of the owner/company

h. PLAN, SPECIFICATION & ESTIMATE (PS&E) DESIGN SERVICES

- **Plans** - The Engineer will develop the final design and prepare contract drawings, specifications and estimates for construction of the Project or portions of the Project as authorized by the Owner. These documents will be submitted to the applicable city, county, state, and/or federal agencies for approval.
    - The Engineer will complete a Design Summary Report (DSR) for project,
    - All final plan sheets will be developed by the Engineer on 11" x 17" reproducible, to scale.
    - The Engineer shall prepare graphic files that can be reviewed and plotted utilizing Micro-Station /AutoCAD software. The graphic files submitted must be compatible with Micro-Station/AutoCAD System without conversion or modification and must plot consistent with reproducible plots submitted.
    - Plan sheets will include the following:

Roadway design

1) Geometric design – horizontal and vertical alignments, intersection geometrics; to be incorporated onto plan and profile sheets.
2) Geometric and grading design – development of typical roadway sections through horizontal and vertical alignment determination and roadway cross sections.
3) Grading design – existing and design cross sections, cut/fill quantities, slope stability analysis, embankment foundation stability and settlement analysis.
4) Earthwork Quantities – obtained from grading design.
5) Miscellaneous supplemental plan details.

Drainage

The Engineer will perform final hydrologic/hydraulic analysis and design for the proposed improvements of the Project or portions of the Project as authorized by the Owner.

Signage

The Engineer will determine location and type of warning, regulatory, and guide signs as required by the applicable standards. All signage design will be based on the final proposed roadway design.

Permanent Pavement Markings

The Engineer with the Owner will evaluate the need for pavement markings and design all permanent pavement markings in accordance with the latest applicable standards. All such designs shall be based on the final proposed roadway design.

Miscellaneous

1) The Engineer will prepare a title sheet indicating, at a minimum, project limits, project location map, name of owner, facility identification, specification reference, Engineer's seal, signature, and date.

2) The Engineer will determine appropriate standard drawings to be incorporated into the plans, and sign/seal any modifications to any agency or industry approved standards.
3) The Engineer will develop details to clarify any construction requirement of the plan drawings.

- **Specifications** – The Engineer shall use the latest Texas Department of Transportation Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges. Other specifications may be developed by the Engineer but must incorporate references to standard TxDOT requirements of design & testing procedures.

- **Estimates** – The Engineer will prepare detailed cost estimates and proposals of authorized construction, which will include summaries of bid items and quantities based on the unit price system of bidding.

All plots and graphic media provided by the Engineer as a result of this Agreement shall be delivered to the Owner. Final payment for plan sheet documents and/or associated, applicable engineering files will not be made until the files furnished by the Engineer have been demonstrated to be useable in the formats described above and herein.

i. CONSTRUCTION LETTING & PROJECT MANAGEMENT

- Contract Time Determination Statement. The Engineer will determine the time required for construction of the project, outlining phases of construction and appropriate rates of production and construction for bid items determined to be in the critical path for construction of the PS&E submittal.
- Engineer will assist Owner with management of TxDOT coordination, project letting, support documentation, and construction contract award.
- Engineer will attend Construction Pre-Construction meeting and provide any project information developed through design as requested by Construction Manager.

ATTACHMENT B

FEE PROPOSAL

ATTACHMENT "B1" Estimated Overall Budget

*Estimates based on Avg Cost per Square Foot of Previously Awarded AFA Projects

Limits of Construction		Road	Length (Mi)	FT/Mile	Length (FT)	Proposed Road Width	AVG Cost/SF	Rough Estimated Cost
HOEHN RD.	JACKSON RD.	SCHUNIOR ROAD	1.99	5280	10507.2	57	$ 13.44	**$ 8,051,689.18**
US 107	SCHUNIOR ST.	HOEHN ROAD	0.50	5280	2640	57	$ 13.44	**$ 2,023,037.48**
US 107	SCHUNIOR ST.	HOEHN ROAD DITCH IMPROVEMENTS						**$ 2,300,000.00**
			2.49					**$ 12,374,726.66**

PHASE IIB - ROW Land Costs & Fees	$	785,530.00
Phase VI - Construction	$	12,374,726.66
PHASE I -Schematic, ROW Mapping, Preliminary Engineering	$	618,736.33
PHASE IIA - ROW Acquisition Services	$	247,494.53
PHASE III - Environmental & Project Funding Coordination	$	123,747.27
PHASE IV -PS&E, Geotechnical & Utility Coordination	$	742,483.60
PHASE V - Construction Letting & Project Management	$	61,873.63
Soft Costs Subtotal	**$**	**1,794,335.37**
OVERALL ESTIMATED PROJECT BUDGET	**$**	**14,954,592.03**

ATTACHMENT “B2” – PROJECT SCHEDULE

Fiscal Year		**Project Phases**
2025-2026		PHASE I -Schematic, ROW Mapping, Preliminary Engineering
2026-2027		PHASE II - ROW Acquisition Management, Fees & Land Costs
2027-2028		PHASE III - Environmental & Project Funding Coordination
2028-2029		PHASE IV -PS&E, Geotechnical & Utility Coordination
2029-2030		PHASE V - Construction Letting & Project Management

Attachment B3
Hidalgo County Precinct #4:
Schunior Road Expansion Project Development & Design Limits: N. Jackson Road to Hoehn Road
& Hoehn Road from Schunior Road to University Drive (SH 107)

ESTIMATE SUMMARY OF MAN-HOURS

	TASK DESCRIPTIONS		Principal PE/RPLS	Project Manager	Agency Coordination Utility Manager	Design Engineer	Graduate Engineer	Engineering Tech II	Project Admin/Clerk	Records Manager Document Control	Survey 2 Man Crew	Totals
	Phase I, II, III - Schematic, ROW, Environmental & Project Planning											
1	Environmental Document (TxDOT/FHWA Clearance)		10	50	40		140		120	20		380
2	Public Involvement for the Project w/1 Public Meeting		8	20	10	104			24			166
3	Archeological & Historical Research		10	100			120	40	24	30		324
4	Topographic Survey ($30k/mile)		40	30			85	120	8	10	150	443
5	Schematic Development & TxDOT Approval		10	126		200	384	960		20	85	1785
6	Hydrologic Map & Analysis		20	50	40	100	180	150	2	5		547
7	Public Involvement for the Project w/1 Public Hearing		8	20	86	104			24	25		267
8	Project Development (Funding/Entity Coordination/AFA Development, etc…)		40	40	120		120		24	24		368
9	Traffic Signal Warrants (Old Hwy 107 & Mile 8 Rd)		8	20			45		16	10		99
10	Traffic & LOS Analysis for Off-System Rdwy (Env & Pvmnt Des Purposes)		16	40		30	60		16	5		167
11	Parcel Sketches & Field Notes (est @ $3,500/parcel)		30	80		24	120	300	30	30	40	654
12	ROW Acquisition Services (est $7,500/parcel)		40	120		100	430	450	120	60		1320
13	ROW Relocation Assistance, Coordination		30	90		50						170
14	Project Management, Meetings, Reporting		160	640		640	400		120	25		1985
	Subtotal Labor Hours (PHASE I)		430	1426	296	1352	2084	2020	528	264	275	
	Phase IV - PS&E, Geotechnical & Utility Coordination											
1	PS&E Development		192	432	150	648		864	340	20	40	2686
2	Geotechnical Testing & Pavement Design		10	120		80		160	20	20		410
3	Permitted Utility Coordination		12	24	60	110	48		12	20		286
4	Compensable Utility Coordination		12	40	75	80	120		12	25		364
5	Subsurface Utility Engineering (10 potholes)		8	16	20	20		30	5	5	60	164
6	Project Management		280	400	240	640						1560
7	Project Site Visits		12	22	22	30	30	30				146
	Subtotal Labor Hours (PHASE II)		526	1054	567	1608	198	1084	389	90	100	
	PHASE V - Construction Letting & Project Management											
1	Local Let Bid Package Development Assistance		40	65		45	25		16	8		199
2	Letting Assistance (Pre-Bid Meeting, Pre-Con Meeting, etc…)		40	60		45	25		24	20		214
	Subtotal Labor Hours (PHASE III)		80	125	0	90	50	0	40	28	0	
	TOTAL HOURS		1036	2605	863	3050	2332	3104	957	382	375	14704
	Loaded Hourly Rates		$ 220.00	$ 200.00	$ 175.00	$ 115.00	$ 85.00	$ 65.00	$ 55.00	$ 75.00	$ 165.00	
	Direct Labor		$ 227,920.00	$ 521,000.00	$ 151,025.00	$ 350,750.00	$ 198,220.00	$ 201,760.00	$ 52,635.00	$ 28,650.00	$ 61,875.00	$ 1,793,835.00
	TOTAL ESTIMATE		$ 227,920.00	$ 521,000.00	$ 151,025.00	$ 350,750.00	$ 198,220.00	$ 201,760.00	$ 52,635.00	$ 28,650.00	$ 61,875.00	$ 1,793,835.00
	Percentage of Time on the Project (in 1 year)		49.81%	125.24%	41.49%	146.63%	112.12%	149.23%	46.01%	18.37%	18.03%	

CONTRACT AMOUNT **$ 1,793,835.00**

EXHIBIT D

WORK SCHEDULE

ATTACHMENT "C" WORK SCHEDULE
SCHUNIOR ROAD - LIMITS: N. JACKSON ROAD TO HOEHN ROAD
HOEHN ROAD - LIMITS: SCHUNIOR ROAD TO UNIVERSITY DRIVE (SH 107)

TASK AND DESCRIPTION	ENTITY	2025												2026												2027												2028												2029											
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC
WORK AUTHORIZATION #1 TASKS																																																											
Schematic/Preliminary Planning																																																											
Schematic Design Development	SAMES																																																										
Hydrologic Map	SAMES																																																										
ROW Mapping																																																											
Planning & Assessment	SAMES																																																										
Right-of-Way Analysis	SAMES																																																										
Right-of Way Mapping	SAMES																																																										
Estimate for acquisition	SAMES																																																										
Final Deliverable	SAMES																																																										
ROW Acquisition																																																											
Prepare ROW Map/Parcel Sketches & Field Notes	SAMES																																																										
ROW Parcel Negotiations	SAMES																																																										
Payments for Parcels	HC4																																																										
Condemnation Support	HC4																																																										
Eminent Domain Proceedings	HC4																																																									
Project Funding Coordination																																																											
Initiate coordination with RGVMPO for project funding*	SAMES																																																										
Amend RGVMPO TIP/MTP to fund project	RGVMPO																																																										
Coordinate Functional Classification of project	RGVMPO																																																										
Coordinate with RGVMPO for inclusion into the 2024 UTP	RGVMPO																																																										
AFA coordination with TxDOT	SAMES																																																										
AFA Approval	TxDOT																																																										
Schematic, Env & Public Involvement																																																											
Environmental Scoping Meeting	SAMES																																																										
Public Involvement for Public Meeting	SAMES																																																										
Advertise & Conduct Public Meeting	SAMES																																																										
Submit Schematic to TxDOT (After Public Meeting - TxDOT Req.)	HC4																																																										
TxDOT Schematic Approval	TxDOT																																																										
Environmental Document Preparation	SAMES																																																										
Submit Final Draft Document	SAMES																																																										
Agency Review & Revisions	TxDOT																																																										
Environmental Decision	TxDOT																																																										
WORK AUTHORIZATION #2 TASKS																																																										
PS&E & Utility Coordination																																																											
PS&E Development	SAMES																																																											
Geotechnical Drilling & Engineering	SAMES																																																										
Utility Coordination	SAMES																																																										
TxDOT PS&E Review & Approval	TxDOT																																																										
Construction Letting																																																											
Receipt of Bids	HC4																																																										

SAMES TASK
HIDALGO COUNTY TASK
RGVMPO/TxDOT/FHWA TASK
TxDOT TASK