WORK AUTHORIZATION NO. 8
PROJECT: Right of Way Survey and Parcel Maps for San Gabriel Ranch Road

This Work Authorization is made pursuant to the terms and conditions of the Williamson County Contract for Surveying Services, being dated February 9, 2015 and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and Surveying and Mapping (SAM) LLC (the "Surveyor").

Part1. The Surveyor will provide the following Surveying Services set forth in Attachment "B" of this Work Authorization.

Part 2. The maximum amount payable for services under this Work Authorization without modification is $20,000.00.

Part 3. Payment to the Surveyor for the services established under this Work Authorization shall be made in accordance with the Contract.

Part 4. This Work Authorization shall become effective on the date of final acceptance and full execution of the parties hereto and shall terminate on September 30, 2019. The Surveying Services set forth in Attachment "B" of this Work Authorization shall be fully completed on or before said date unless extended by a Supplemental Work Authorization.

Part 5. This Work Authorization does not waive the parties' responsibilities and obligations provided under the Contract.

Part 6. County believes it has sufficient funds currently available and authorized for expenditure to finance the costs of this Work Authorization. Surveyor understands and agrees that County's payment of amounts under this Work Authorization is contingent on the County receiving appropriations or other expenditure authority sufficient to allow the County, in the exercise of reasonable administrative discretion, to continue to make payments under this Contract. It is further understood and agreed by Surveyor that County shall have the right to terminate this Contract at the end of any County fiscal year if the governing body of County does not appropriate sufficient funds as determined by County's budget for the fiscal year in question. County may effect such termination by giving written notice of termination to Surveyor.

Part 7. This Work Authorization is hereby accepted and acknowledged below.

EXECUTED this ____ day of _____, 20___.

SURVEYOR:

Surveying and Mapping LLC

By: _____
Signature

SCOTT BRASHEAR
Printed Name

PROJECT MANAGER
Title

COUNTY:

Williamson County, Texas

By: _____
Signature

_____
Printed Name

_____
Title

LIST OF ATTACHMENTS

Attachment A - Services to be Provided by County

Attachment B - Services to be Provided by Surveyor

Attachment C - Work Schedule

Attachment D - Fee Schedule

ATTACHMENT A
SERCIVES TO BE PROVIDED BY THE COUNTY

The County shall:

A. Provide the specification requirements for all surveys.

B. Provide timely reviews and decisions necessary to enable the Surveyor to maintain an agreed upon project schedule as developed in Attachment C.

C. Designate a project manager to serve at the County's point of contact with the Surveyor.

D. The Horizontal datum, as provided by Williamson County for this project, will be NAD83 (2011) Epoch 2010, and will be projected to Texas Coordinate System, Central Zone using a combined scale factor of 0.99985472.

E. Primary Control Points provided by Williamson County will be recovered and held for this effort.

F. It is assumed that Williamson County will coordinate Right-Of-Entry (ROE) with the Property Owners prior to the Surveyor entering private property.

Attachment B - Services to be Provided by Surveyor

RIGHT-OF-WAY SUVEYS AND PARCEL MAPS (UP TO 2 ROW PARCELS)

PROJECT CONTROL

Surveying And Mapping, LLC (SAM) shall recover existing primary survey control utilized in this work authorization for San Gabriel Ranch Road boundary survey. The primary survey control, as provided by Williamson County, consists of a subterranean concrete monument with a 3-1/4 inch diameter aluminum cap flush with the natural ground surface on the northerly right-of-way of Remuda Drive, approximately 200 feet west of the intersection with Mustang Circle, Liberty Hill, Texas, and stamped "Williamson County GPS Monument" "GPS-40" "2007-40" Elevation: 902.36.

Horizontal datum, as provided by Williamson County for this project, will be NAD83 (2011) Epoch 2010, and will be projected to Texas Coordinate System, Central Zone using a combined scale factor of 0.99985472. Vertical Datum, as provided by Williamson County for this project, will be based on the orthometric height, (GEOID 03).

RIGHT-OF-ENTRY (ROE)

Williamson County will obtain written ROE from the landowners for the purpose of gaining access for survey. SAM will contact affected land owners prior to commencing any work on private property. SAM anticipates that Williamson County will handle problems regarding any and all refusal to grant ROE or communication with land owners who are hostile with respect to the completion of this scope of services. SAM will document any interactions with land owners while performing the work. Gaining ROE from all land owners in a timely manner will be critical to the success and efficiency in meeting deadlines for this project.

RECORDS RESEARCH AND DEED STUDY

Upon notice to proceed, SAM will conduct research in the Williamson County Appraisal District offices to confirm property ownership for the two (2) affected properties (subject properties). Concurrently, copies of the current deeds and any plats for all subject properties will be obtained from the Williamson County Clerks' records.

SAM will enlist the services of a title company to provide title reports for the two (2) affected subject properties. Based upon the records obtained, SAM will prepare a working drawing of the deeds and ROW information to be used for a preliminary base map.

FIELD SURVEYS

SAM will recover existing monuments marking the corners of the properties, and corner or angle point monuments nearest to the proposed ROW, from which ROW is to be obtained and will tie the monumentation found to the project control.

BOUNDARY ANALYSIS

Utilizing the deed study and the data obtained from the field survey, SAM will analyze the results of the survey and perform computations to determine locations of ROW lines and the side property lines of each of the subject properties.

PREPARATION OF DOCUMENTS

a. SAM will append the previously developed base file (developed under this contract and project) showing ownership of the subject properties and any easements found during the title abstract. Properties adjacent to the existing/proposed right of way within the project limits will be labeled with the owner's name and deed recordation information.

b. Utilizing the boundary surveys performed by SAM, and the proposed ROW line provided by Williamson County, SAM will compute the boundaries of the ROW parcels for each of the subject properties.

c. SAM will draft plats for up to two (2) parcels and append plats for up to two (2) parcels for ROW acquisition, upon receiving final ROW lines from Williamson County, to be prepared on 8 1/2" x 11" pages. A closure computation will be prepared for each of the plats.

d. SAM will prepare a field note (metes and bounds) description for each of the parcels mentioned in item "c" above. A closure computation will be prepared for each of the descriptions.

e. SAM will draft a continuous ROW roll plot exhibit, at an even scale, based upon the above stated project limits. The roll plot will contain the proposed ROW lines, existing ROW lines, parcel numbers and record ownership information.

f. To assure the accuracy of the documents, SAM will read the descriptions while all details are compared parcel plats (bearings, distances, stations and offsets, deed references, etc.). Final mark-ups will be made and corrections completed.

g. All of the above described survey documents (ROW roll plot, property descriptions parcel plats and closure computations) will be submitted to Williamson County for review. Upon the completion of review of all ROW survey documents, SAM will make any necessary corrections. The final ROW documents will then be delivered to Williamson County.

MONUMENTATION

5/8 inch iron rods with aluminum caps stamped "Williamson County ROW" will be set at PCs, PTs, and angle points along the proposed right-of-way line and at property line intersections with the proposed right-of-way line (assume 9 total).

ROW SURVEY DELIVERABLES

a. Three legal descriptions for each parcel (signed and sealed).

b. Three individual survey plats on 8 1/2"x11" for each parcel (signed and sealed).
c. ROW map/roll plot
d. One set of area computation sheets for legal descriptions, plats, and ROW roll plot showing parcel lines and parcel numbers corresponding to field notes for all parcels.
e. Digital files on CD for the right-of-way base file and reference files in Microstation V8 (.dgn) format. These shall be delivered to Williamson County prior to finalizing the proposed ROW acquisition documents.
f. PDF copy of Title Reports for each parcel to be used in assisting the ROW acquisition effort.

ADDITIONAL SERVICES

In addition to the services outlined above, SAM can provide additional services as requested on a time and materials basis. If requested, a scope of work and estimated fee will be provided in writing prior to SAM proceeding with any additional service. These additional services include, but are not limited to, the following:

- ROW or Boundary surveying and mapping services beyond that scoped herein.
- Design surveying services.
- Obtaining right of entry from the adjoining landowners.
- Records research to abstract title, easements and other encumbrances of record beyond the scoped herein.
- Preparing of descriptions and plats for temporary construction easements and surveying to stake such easements if required.
- Aerial or Geospatial services.
- Subsurface Utility Engineering (SUE) services.
- Construction staking.
- Any other services not specifically outlined above.

ATTACHMENT C - WORK SCHEDULE						
Surveying and Mapping,LLC						
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Recover and Establish Horizontal Survey Control*						
Righ-Of-Entry Coordination						
Records Research and Deed Study						
Field Surveys*						
Boundary Analysis						
Williamson County Review						
Preparation of Documents						
Williamson County Review						
Monumentation*						
* Weather Dependent						

SAM, LLC has sufficient office & field staff available to accommodate accelerated work schedules that may become necessary during the course of the project. Please contact us immediately upon becoming aware of this situation to discuss compressing the schedule, along with associated fees, to deliver the final product to meet the new deadline.

Attachment D - Fee Schedule

See Attached

ATTACHMENT D
TIME AND MATERIALS PAYMENT BASIS
RIGHT OF WAY SERVICES

Project: San Gabriel Ranch Road ROW Acquisition Parcels
Date: November 1, 2016
Proposal Number: 1016037470

TASK DESCRIPTION	SENIOR PROJECT MANAGER	PROJECT MANAGER	SENIOR SURVEY TECHNICIAN	SURVEY TECHNICIAN	GPS HDS COORDINATOR	2-PERSON SURVEY CREW	3-PERSON SURVEY CREW	FIELD COORDINATOR	ADMIN/ CLERICAL	TOTAL LABOR HRS. & COSTS
ROW Surveying										
Recover and Establish Horizontal Survey Control		1	4			10				$1,785.00
Righ-Of-Entry Coordination				2						$160.00
Records Research and Deed Study		2	6	4						$1,110.00
Field Surveys		1	4			30				$4,385.00
Boundary Analysis		6	12							$1,830.00
Preparation of Documents (Up to 6 Parcels and One Roll Plot)		4	30	20						$4,800.00
Monumentation (up to 20)		1	2			20				$2,905.00
ROW Surveying Sub Totals	0	15	58	26	0	60	0	0	0	$16,975.00
HOURS SUB-TOTALS	0	15	58	26	0	60	0	0	0	16975
CONTRACT RATE PER HOUR	$145.00	$125.00	$90.00	$80.00	$105.00	$130.00	$160.00	$85.00	$60.00	
TOTAL LABOR COSTS	$0.00	$1,875.00	$5,220.00	$2,080.00	$0.00	$7,800.00	$0.00	$0.00	$0.00	$16,975.00

OTHER DIRECT EXPENSES	# OF UNITS	COST/UNIT								
Mileage (number x current state rate)	620	$0.54								$334.80
GPS RTK	30	$25.00								$750.00
Title Reports	6	$300.00								$1,800.00
SUBTOTAL DIRECT EXPENSES										$2,884.80

SUMMARY	
LABOR COSTS	$16,975.00
NON-SALARY (OTHER DIRECT EXPENSES)	$2,884.80
TOTAL SAM SURVEY	$19,859.80