

**EXHIBIT "A"**

**SCOPE OF SERVICES**

This agreement includes engineering and surveying services required for the preliminary planning for future paving and drainage improvements to FM 2514 in Collin County. The scope of work will include the following tasks:

- A. Field Surveys for preparation of the Schematic and Right-of-Way based on the Texas State Plane Coordinate System adjusted to Surface Coordinates as currently required by TxDOT. Field Surveys locating property corners for use in preparation of a Right-of-Way Strip Map and right-of-way field note descriptions and exhibits.
- B. Prepare a Schematic based on Chapter 2 – Preliminary Design, of the TxDOT Project Development Process Manual, June 2009, including the following steps:
  - Conduct a Design Concept Conference with Collin County
  - Conduct early coordination with stakeholders
  - Prepare and execute additional agreements (**\*not included\***)
  - Review Traffic Data (**\*Traffic Data provided by Collin County or TxDOT\***)
  - Obtain Right-of-Entry (permission to survey)
  - Obtain related data, plans, studies and reports
  - Obtain information on existing utilities (**\*provided by utility companies**)
  - Obtain traffic crash data (**\*Traffic Crash Data provided by TxDOT\***)
  - Obtain hydraulic studies (**\*Hydraulic Study Data provided by FEMA**)
  - Obtain aerial photography/planimetrics/DTMs/digital orthophotography (**\*provided by TxDOT or Collin County\***)
  - Perform topographic and other surveys
  - Assist in conducting a Public Meeting
  - Revise design based on public input
  - Evaluate corridor alternatives
  - Obtain preliminary Level of Service (LOS) analysis (**\*LOS provided by TxDOT\***)
  - Evaluate route alternatives
  - Evaluate geometric alternatives
  - Prepare Assessment of Landscape and Aesthetic Items (**\*not included\***)
  - Develop typical sections
  - Develop bicyclist/pedestrian accommodation concept (**\*not included\***)
  - Update Opinions of Probable Construction Cost
  - Develop preferred geometric alignment
  - Perform preliminary geotechnical surveys (visual only)
  - Obtain Pavement Design Report (**\*Pavement Design provided by TxDOT\***)
  - Refine typical sections
  - Consider impact on historical structures
  - Obtain Detailed Level of Service (LOS) analysis (**\*LOS provided by TxDOT\***)

- Determine guide signing and operational controls
- Perform preliminary planning for bridges
- Establish preliminary retaining and/or noise wall locations
- Perform hydrologic study for major stream crossings
- Perform preliminary hydraulic analysis/design
- Determine right-of-way and access needs
- Identify existing utilities on geometric schematic
- Identify potential utility conflicts
- Establish preliminary illumination locations (**\*not included\***)
- Conduct a contractibility review
- Value Engineering (**\*not included\***)
- Submit geometric schematic for TxDOT District review and for review by stakeholders
- Submit design exceptions/waivers for approval
- Obtain approval of Geometric Schematic from TxDOT
- Revise Geometric Schematic as required from input at Public Hearing
- Obtain approval of Final Geometric Schematic from TxDOT

(\*) Steps followed by this symbol are either provided by others or are not included in the scope of services for this project. The scope can be expanded to include most of these steps at an additional cost.

C. Prepare and Environmental Document based on Chapter 3 – Environmental, of the TxDOT Project Development Process Manual, June 2009, including the following steps to be performed by Civil Associates, Inc. of Garland, Texas.

- Project Management
  - Monthly progress reports
  - Coordination with Collin County, TxDOT and BHC
  - Attend Coordination Meetings – one with BHC and one with TxDOT
- Data Collection
- Site Reconnaissance
- Environmental Assessment Document Preparation
  - Description of Proposed Action
  - Discussion of Existing Facility
  - Alternatives Analysis
  - Potential Social, Economic and Environmental Effects
  - Determination of Assessment
  - Exhibits/Attachments Preparation
- Document QA/QC
- Address EA Review Comments
- Document Processing and Production
- Cultural Resources – Archeological Review (Geo-Marine)

- D. Obtain Property Owner Information from the Collin County Central Appraisal District and prepare a database with owners name, address, deed number, and phone number (if available).
- E. Provide assistance in conducting a Public Hearing based on Section 4 – Public Hearing of Chapter 3 – Environmental, of the TxDOT Project Development Process Manual, June 2009, including the following steps.
- Prepare a database of Property Owners, names and mailing addresses
  - Assist in preparation of Notice
  - Attend pre-Public Hearing meeting
  - Public Hearing coordination and attendance
  - Prepare Public Hearing Summary Document
  - Address Environmental and Engineering questions during the Public Hearing process
  - Respond to TxDOT Dallas District comments (one round)
  - Respond to ENV comments (one round)
  - Respond to FHWA comments (one round)
- F. Prepare a Right-of-Way Strip Map and individual field note descriptions and exhibits for each of approximately 82 parcels with property boundaries located based on Field Surveys, Deed Information obtained from Collin County Central Appraisal District and the Deed Records of Collin County, Texas, TxDOT Right-of-Way Maps and Plats supplied by the County and local Cities, based on Chapter 4 – Right-of-Way Utilities, of the TxDOT Project Development Process Manual, June 2009, including the following steps.
- Perform preliminary right-of-way research (as described in Part D above)
  - Locate existing utilities (**\*SUE not included**)
  - Prepare right-of-way map and property descriptions and exhibits
  - Submit right-of-way map and parcel documents for review by Collin County & TxDOT
  - Revise right-of-way map and parcel documents for review comments
  - Obtain approval of right-of-way map and parcel documents
  - Right-of-Way Appraisals and Acquisition (**\*not included**)
  - Utility Adjustments (**\*not included**)
- G. Assist in conducting a Noise Workshop (if required by the Environmental Assessment), including the steps listed on the attached subconsultant agreement with Civil Associates, Inc.

The limits of the project are from just east of FM 2551 in Parker to just east of FM 1378 in Saint Paul as shown on the project location map. The project is approximately 16,400 ft. (3.10 miles) in length.

**EXHIBIT "B"**

**COMPLETION SCHEDULE**

The Project Schedule shall be as shown on the attached Revised Estimated Project Schedule.

**ESTIMATED PROJECT SCHEDULE**

Activity Description	TIME IN MONTHS AFTER APPROVAL																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<b>SURVEYING</b>																				
Existing Data Collection (Complete)																				
Field Survey for Schematic	█																			
Field Survey for Right-of-Way																				
<b>SCHEMATIC</b>																				
90% Complete Schematic	█																			
Collin Co. TxDOT 90% Review		█	█																	
95% Complete Schematic Submittal				█																
Collin Co. & Dallas District TxDOT 95% Review					█	█														
Final Schematic Submittal							█													
TxDOT Austin Schematic Review								█	█											
Final Approval of Schematic										█	█									
<b>ENVIRONMENTAL ASSESSMENT</b>																				
Draft Environmental Document	█	█	█	█	█															
TxDOT Review (Area & District)						█	█													
Revised Draft Environmental Document								█												
TxDOT ENV Review & Coordination									█	█										
Revised ENV Draft Environmental Document											█									
FHWA Review and Coordination												█	█							
Revised FHWA Draft Environmental Document														█						
FHWA Satisfactory for Further Action																█				
FHWA Review and Approval (FONSI)																		█		
<b>RIGHT-OF-WAY MAP &amp; DOCUMENTS</b>																				
90% Complete ROW Map	█	█																		
Collin Co. TxDOT 90% Review			█	█																
95% Complete ROW Map and Documents					█	█														
Collin Co. & Dallas District TxDOT 95% Review							█	█												
Final ROW Map & Documents Submittal									█											
TxDOT Austin ROW Map & Document Review										█	█									
Final Approval of ROW Map & Documents												█	█							
<b>PUBLIC HEARING</b>																	█	█		

**EXHIBIT "C"**

**PAYMENT SCHEDULE**

Compensation shall be based on a lump sum fee for each of the following tasks:

• Schematic Preparation .....	\$81,500
• Surveying Services .....	\$30,600
• Environmental Document .....	\$121,300
• Right-of-Way Map & Documents .....	\$295,700
• Public Hearing & TxDOT Meetings .....	\$41,700
• Noise Workshop .....	<u>\$15,700</u>
TOTAL ALL TASKS: \$586,500	

The Noise Workshop will only be conducted if required as a result of the Environmental Assessment.

The original maximum overall fee of \$174,700 is hereby increased by \$411,800 to by approval of this Amendment No. 1 to a maximum overall fee of \$586,500. The maximum fee as established herein shall not be exceeded without written authorization from Collin County, based on a revised scope of services.

Invoices will be transmitted to the County on a monthly basis based on a percentage of completion up to that time.

An approximate derivation of the total contract fee amount is shown on the attached Estimate of Projected Man-Hours and Expenses.

**COLLIN COUNTY  
F.M. 2514 (PARKER ROAD)**

**AMENDMENT NO. 1  
TIME AND CHARGES**

Description of Task or Category	Approximate Hours to Complete Task or Category												Total Design Charges	Expense	Design Plus Expense	
	Project Manager		Design Engineer/ Environ. Scientist		EIT / Sr CAD Tech.		CAD Technician/ Clerical		Survey Crew		Total Design Charges	Expense				Design Plus Expense
	Hours	per Hour \$185	Hours	per Hour \$135	Hours	per Hour \$100	Hours	per Hour \$85	Hours	per Hour \$150						
[1] Field Surveys - Survey Crew Only	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	204	\$30,600.00				
<b>SUBTOTAL:</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>204</b>	<b>\$30,600.00</b>			<b>\$0.00</b>	<b>\$30,600.00</b>
[2] Prepare Schematic	104	\$19,240.00	180	\$24,300.00	156	\$15,600.00	248	\$21,080.00		\$0.00						
<b>SUBTOTAL:</b>	<b>104</b>	<b>\$19,240.00</b>	<b>180</b>	<b>\$24,300.00</b>	<b>156</b>	<b>\$15,600.00</b>	<b>248</b>	<b>\$21,080.00</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>			<b>\$1,280.00</b>	<b>\$81,500.00</b>
[3] Prepare Environmental Assessment Document	64	\$11,840.00	576	\$77,760.00	124	\$12,400.00	132	\$11,220.00		\$0.00						
<b>SUBTOTAL:</b>	<b>64</b>	<b>\$11,840.00</b>	<b>576</b>	<b>\$77,760.00</b>	<b>124</b>	<b>\$12,400.00</b>	<b>132</b>	<b>\$11,220.00</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>			<b>\$8,080.00</b>	<b>\$121,300.00</b>
[4] Public Hearing and TxDOT Meetings	42	\$7,770.00	224	\$30,240.00	12	\$1,200.00	12	\$1,020.00		\$0.00						
<b>SUBTOTAL:</b>	<b>42</b>	<b>\$7,770.00</b>	<b>224</b>	<b>\$30,240.00</b>	<b>12</b>	<b>\$1,200.00</b>	<b>12</b>	<b>\$1,020.00</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>			<b>\$1,470.00</b>	<b>\$41,700.00</b>
[5] Prepare Right-of-Way Strip Map and Right-of-Way Documents																
Approximately 82 Parcels	240	\$44,400.00	700	\$94,500.00	820	\$82,000.00	820	\$69,700.00		\$0.00						
<b>SUBTOTAL:</b>	<b>240</b>	<b>\$44,400.00</b>	<b>700</b>	<b>\$94,500.00</b>	<b>820</b>	<b>\$82,000.00</b>	<b>820</b>	<b>\$73,800.00</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>			<b>\$1,000.00</b>	<b>\$295,700.00</b>
[6] Noise Workshop	4	\$740.00	100	\$13,500.00	0	\$0.00	16	\$1,360.00		\$0.00						
<b>SUBTOTAL:</b>	<b>4</b>	<b>\$740.00</b>	<b>100</b>	<b>\$13,500.00</b>	<b>0</b>	<b>\$0.00</b>	<b>16</b>	<b>\$1,360.00</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>			<b>\$100.00</b>	<b>\$15,700.00</b>
<b>TOTAL</b>	<b>454</b>		<b>1780</b>		<b>1112</b>		<b>1228</b>		<b>204</b>						<b>\$574,570.00</b>	<b>\$586,500.00</b>
<b>Original Contract Amount:</b>														<b>\$174,700.00</b>		
<b>Amendment No. 1:</b>														<b>\$411,800.00</b>		