

**WORK AUTHORIZATION NO. 8**

**PROJECT: Engineering Design Services for Roadway Schematic on CR 130 from FM 1660 to CR 131**

This Work Authorization is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated **March 6, 2018** and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and **Alliance Transportation Group** (the "Engineer").

Part 1. The Engineer will provide the following Engineering 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 **\$100,457.00.**

Part 3. Payment to the Engineer 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 **December 31, 2022.** The Engineering 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. Engineer 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 Engineer 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 Engineer.

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

EXECUTED this \_\_\_\_ day of Oct 20, 2021, 2021.

ENGINEER:

Alliance Transportation Group


By:   
Signature

Clint Jumper  
Printed Name

Senior Vice President  
Title

COUNTY:

Williamson County, Texas

By:   
Signature

Bill Gravell, Jr.  
Printed Name

Williamson County Judge  
Title

## LIST OF ATTACHMENTS

Attachment A - Services to be Provided by County

Attachment B - Services to be Provided by Engineer

Attachment C - Work Schedule

Attachment D - Fee Schedule

**Attachment A - Services to be Provided by County**

Please see next page.

## **Attachment A**

### **Services to be Provided by County**

Williamson County Road & Bridge Division personnel will provide:

- Project direction, review, and oversight
- Topographic and R.O.W. Surveys
- Geotechnical investigations, data, and reports
- ROW Documents and Drainage Reports
- Conducting pre-bid meeting, responding to contractor questions during bidding, tabulating, and evaluating bids after bid opening, and providing recommendation of award of contract
- Construction oversight, administration, and management

## **Attachment B - Services to be Provided by Engineer**

Please see next pages.

## **Attachment B**

### **Services to be Provided by the Engineer**

Project Location:

**CR 130 from FM 1660 to CR 131 ~ approximately 3 miles**

**Task 1: Project Management**

- 1.1 Attend Progress Review Meetings with County Road & Bridge Department at Kickoff (DSR), 50%, 90% and Final
- 1.2 Prepare monthly progress reports and invoices
- 1.3 Subconsultants - OMITTED
- 1.3 Maintain project schedule and perform QA/QC of Deliverables at Preliminary Engineering, 50%, 90% and FINAL

**Task 2: Topographic and R.O.W Surveys**

N/A - To be provided by the County

**Task 3: Preliminary Engineering**

- 3.1 Conduct Site Visit and Field Reconnaissance
- 3.2 Data Collection of available CR 130 as-builts, previously prepared drainage studies, adopted land use maps and traffic plans, and GIS information to document existing conditions
- 3.3 Prepare and submit to the County for their review and approval a preliminary Design Summary Report (DSR) to establish project basic features and design criteria
- 3.4 Develop Conceptual Schematic Layout on scroll plot (1"=200' Full Scale plot) reflecting ROW/Property Base Map information, roadway centerline, Typical Sections and existing drainage features
- 3.5 Prepare Preliminary Cross-Sections (50' interval)
- 3.6 Develop preliminary drainage analysis including delineation of drainage areas, calculation of peak stormwater runoff rates for 5-yr, 10-yr, and 25-yr storm events for proposed parallel and cross-drainage preliminary design

**Task 4: Geotechnical Investigations**

N/A - To be provided by the County

**Task 5: Environmental Studies**

N/A

**Task 6: Utility Coordination**

N/A

**Task 7: FEMA Coordination**

N/A

Task 8: Final Engineering

N/A

Task 9: Bidding Phase Services

N/A

Task 10: Construction Phase Services

N/A

**Deliverables:**

Kickoff DSR Submittal:

- 2 paper copies of Design Summary Report (DSR)
- Kickoff meeting documents and meeting notes

Preliminary Engineering 50% Submittal:

- 2 paper copies of Conceptual Schematic Layout scroll plot (1"=200' Full Scale plot)
- Draft preliminary Cross-Sections (50' interval)
- Draft preliminary drainage analysis report

Preliminary Engineering 90% Submittal:

- 2 paper copies of Conceptual Schematic Layout scroll plot (1"=200' Full Scale plot)
- Draft Final preliminary Cross-Sections (50' interval)
- Draft Final preliminary drainage analysis report

Preliminary Engineering Final Submittal:

- 2 paper copies of Conceptual Schematic Layout scroll plot (1"=200' Full Scale plot)
- Final preliminary Cross-Sections (50' interval)
- Final preliminary drainage analysis report
- Engineer's internal QA/QC marked up set
- Electronic copy of submittal documents in PDF format on CD
- Electronic native Microstation Design files



## **Attachment C - Work Schedule**

Please see next page.

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Successors
1	[Icon]	CR 130 from FM 1660 to CR 131 - Notice to Proceed	0 days	Wed 10/20/21	Wed 10/20/21		2
2	[Icon]	Detailed Survey (provided by others)	5 days	Wed 10/20/21	Tue 10/26/21	1	4
3	[Icon]	Task 3: CR 130 Preliminary Engineering	17 days	Wed 10/27/21	Thu 11/18/21		
4	[Icon]	Site visit and Field Recon	5 days	Wed 10/27/21	Tue 11/2/21	2	5
5	[Icon]	Data Collection	8 days	Wed 11/3/21	Fri 11/12/21	4	6
6	[Icon]	Design Summary Report	2 days	Mon 11/15/21	Tue 11/16/21	5	7
7	[Icon]	Kickoff meeting (Confirm Project Goals, DSR)	2 days	Wed 11/17/21	Thu 11/18/21	6	10,11
8	[Icon]	Task 3: CR 130 Schematic Development	110 days	Fri 11/19/21	Thu 5/5/22		
9	[Icon]	50% Deliverable	50 days	Fri 11/19/21	Thu 2/10/22		
10	[Icon]	Conceptual Schematic Layout	25 days	Fri 11/19/21	Thu 1/6/22	7	
11	[Icon]	Preliminary Cross-Sections	25 days	Fri 11/19/21	Thu 1/6/22	7	12SS+5 days
12	[Icon]	Preliminary Drainage Analysis	30 days	Fri 11/26/21	Thu 1/20/22	11SS+5 days	13
13	[Icon]	QC/QA	5 days	Fri 1/21/22	Thu 1/27/22	12	14
14	[Icon]	Submit 50% Preliminary Engineering Deliverable	0 days	Thu 1/27/22	Thu 1/27/22	13	15
15	[Icon]	WILCO Review	10 days	Fri 1/28/22	Thu 2/10/22	14	17,18
16	[Icon]	90% Deliverable	35 days	Fri 2/11/22	Thu 3/31/22		
17	[Icon]	Draft Final Conceptual Schematic Layout	15 days	Fri 2/11/22	Thu 3/3/22	15	
18	[Icon]	Draft Final Preliminary Cross-Sections	15 days	Fri 2/11/22	Thu 3/3/22	15	19SS+5 days
19	[Icon]	Draft Final Preliminary Drainage Analysis	15 days	Fri 2/18/22	Thu 3/10/22	18SS+5 days	20
20	[Icon]	QC/QA	5 days	Fri 3/11/22	Thu 3/17/22	19	21
21	[Icon]	Submit 90% Preliminary Engineering Deliverable	0 days	Thu 3/17/22	Thu 3/17/22	20	22
22	[Icon]	WILCO Review	10 days	Fri 3/18/22	Thu 3/31/22	21	25,24
23	[Icon]	Final Deliverable	25 days	Fri 4/1/22	Thu 5/5/22		
24	[Icon]	Final Conceptual Schematic Layout	10 days	Fri 4/1/22	Thu 4/14/22	22	
25	[Icon]	Final Preliminary Cross-Sections	10 days	Fri 4/1/22	Thu 4/14/22	22	27,26SS+5 days
26	[Icon]	Final Preliminary Drainage Analysis	10 days	Fri 4/8/22	Thu 4/21/22	25SS+5 days	27
27	[Icon]	QC/QA	5 days	Fri 4/22/22	Thu 4/28/22	25,26	28
28	[Icon]	Submit Final Preliminary Engineering Deliverable	3 days	Fri 4/29/22	Tue 5/3/22	27	29
29	[Icon]	WILCO Review	2 days	Wed 5/4/22	Thu 5/5/22	28	30
30	[Icon]	Project Completion submittal of Final electronic files	0 days	Thu 5/5/22	Thu 5/5/22	29	

Oct '21  
31

Nov '21  
7

Dec '21  
14

Jan '22  
21

Feb '22  
28

Mar '22  
6

Apr '22  
13

May '22  
20

10/20

1/27

3/17

5/5

Project: Durham Park Blank  
Date: Tue 10/12/21

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Task

Duration-only

Manual Summary Rollup

Start-only

Finish-only

External Tasks

External Milestone

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Progress

Manual Progress

Deadline

Progress

Manual Progress

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## **Attachment D - Fee Schedule**

Please see next pages.

Williamson County Small Drainage & Roadway Design (1711-206) - WA08  
Attachment D  
CR 130 from FM 1660 to CR 131 ~ approximately 3 miles

Task Description	Project Principal	Senior Project Manager	Project Manager	Hydraulic Engineer	Senior Engineer	Project Engineer	Engineer -In- Training	Senior Engineering Technician	Engineering Technician	Project Administrator	Clerical	Total Labor Hours & Costs
<b>Task 1: Project Management</b>												
1.1 Progress Review Meetings (4 meetings: Kickoff, 50%, 90% & Final)			9				5					14
1.2 Invoicing and Progress Reports (12 months)			10							16	12	38
1.3 Subconsultants												
1.41 QA/QC of Kickoff DSR		16	8	8			8					40
1.42 QA/QC of Deliverables at 50%		12	8	4			4					28
1.43 QA/QC of Deliverables at 90%		10	8	4			4					26
1.44 QA/QC of Deliverables at FINAL		10	4	4			4					22
Labor Hours Subtotal	0	48	47	20	0	0	25	0	0	16	12	168
Contract Labor Rate Per Hour	\$ 265.00	\$ 244.00	\$ 230.00	\$ 210.00	\$ 205.00	\$ 160.00	\$ 115.00	\$ 133.00	\$ 92.00	\$ 104.00	\$ 85.00	
<b>Labor Costs Subtotal</b>	<b>\$ -</b>	<b>\$ 11,712.00</b>	<b>\$ 10,810.00</b>	<b>\$ 4,200.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,875.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,664.00</b>	<b>\$ 1,020.00</b>	<b>\$ 32,281.00</b>

Task Description	Project Principal	Senior Project Manager	Project Manager	Hydraulic Engineer	Senior Engineer	Project Engineer	Engineer -In- Training	Senior Engineering Technician	Engineering Technician	Project Administrator	Clerical	Total Labor Hours & Costs
<b>Task 2: Topographic and R.O.W. Surveys</b>												
N/A												0
Labor Hours Subtotal	0	0	0	0	0	0	0	0	0	0	0	0
Contract Labor Rate Per Hour	\$ 265.00	\$ 244.00	\$ 230.00	\$ 210.00	\$ 205.00	\$ 160.00	\$ 115.00	\$ 133.00	\$ 92.00	\$ 104.00	\$ 85.00	
<b>Labor Costs Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Task Description	Project Principal	Senior Project Manager	Project Manager	Hydraulic Engineer	Senior Engineer	Project Engineer	Engineer -In- Training	Senior Engineering Technician	Engineering Technician	Project Administrator	Clerical	Total Labor Hours & Costs
<b>Task 3: Preliminary Engineering</b>												
3.1 Conduct Site Visit and Field Reconnaissance				12		20						32
3.2 Data Collection				12			30					42
3.3 Design Summary Report (DSR)			12				20					32
3.4 Conceptual Schematic Layout scroll plot (1"=200' Full Scale plot)			16			20	50					86
3.5 Cross-Sections (50' intervals)			16			40	100					156
3.6 Preliminary Drainage Analysis												
Delineate Drainage Area				13			25					38
Calculate Peak Stormwater Runoff Rates (5 yr, 10 yr, 25 yr)				18			40					58
Labor Hours Subtotal	0	0	44	55	0	80	265	0	0	0	0	444
Contract Labor Rate Per Hour	\$ 265.00	\$ 244.00	\$ 230.00	\$ 210.00	\$ 205.00	\$ 160.00	\$ 115.00	\$ 133.00	\$ 92.00	\$ 104.00	\$ 85.00	
<b>Labor Costs Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 10,120.00</b>	<b>\$ 11,550.00</b>	<b>\$ -</b>	<b>\$ 12,800.00</b>	<b>\$ 30,475.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 64,945.00</b>

Task Description	Project Principal	Senior Project Manager	Project Manager	Hydraulic Engineer	Senior Engineer	Project Engineer	Engineer -In- Training	Senior Engineering Technician	Engineering Technician	Project Administrator	Clerical	Total Labor Hours & Costs
<b>Task 4: Geotechnical Investigation</b>												
N/A												0
Labor Hours Subtotal	0	0	0	0	0	0	0	0	0	0	0	0
Contract Labor Rate Per Hour	\$ 265.00	\$ 244.00	\$ 230.00	\$ 210.00	\$ 205.00	\$ 160.00	\$ 115.00	\$ 133.00	\$ 92.00	\$ 104.00	\$ 85.00	
<b>Labor Costs Subtotal</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Task Description	Project Principal	Senior Project Manager	Project Manager	Hydraulic Engineer	Senior Engineer	Project Engineer	Engineer -In- Training	Senior Engineering Technician	Engineering Technician	Project Administrator	Clerical	Total Labor Hours & Costs
<b>Task 5: Environmental Studies</b>												
N/A												0
Labor Hours Subtotal	0	0	0	0	0	0	0	0	0	0	0	0
Contract Labor Rate Per Hour	\$ 265.00	\$ 244.00	\$ 230.00	\$ 210.00	\$ 205.00	\$ 160.00	\$ 115.00	\$ 133.00	\$ 92.00	\$ 104.00	\$ 85.00	
<b>Labor Costs Subtotal</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Task Description	Project Principal	Senior Project Manager	Project Manager	Hydraulic Engineer	Senior Engineer	Project Engineer	Engineer -In- Training	Senior Engineering Technician	Engineering Technician	Project Administrator	Clerical	Total Labor Hours & Costs
<b>Task 6: Utility Coordination</b>												
N/A												0
Labor Hours Subtotal	0	0	0	0	0	0	0	0	0	0	0	0
Contract Labor Rate Per Hour	\$ 265.00	\$ 244.00	\$ 230.00	\$ 210.00	\$ 205.00	\$ 160.00	\$ 115.00	\$ 133.00	\$ 92.00	\$ 104.00	\$ 85.00	
<b>Labor Costs Subtotal</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Task Description	Project Principal	Senior Project Manager	Project Manager	Hydraulic Engineer	Senior Engineer	Project Engineer	Engineer -In- Training	Senior Engineering Technician	Engineering Technician	Project Administrator	Clerical	Total Labor Hours & Costs
<b>Task 7: FEMA Coordination</b>												
N/A												0
Labor Hours Subtotal	0	0	0	0	0	0	0	0	0	0	0	0
Contract Labor Rate Per Hour	\$ 265.00	\$ 244.00	\$ 230.00	\$ 210.00	\$ 205.00	\$ 160.00	\$ 115.00	\$ 133.00	\$ 92.00	\$ 104.00	\$ 85.00	
<b>Labor Costs Subtotal</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Task Description	Project Principal	Senior Project Manager	Project Manager	Hydraulic Engineer	Senior Engineer	Project Engineer	Engineer -In- Training	Senior Engineering Technician	Engineering Technician	Project Administrator	Clerical	Total Labor Hours & Costs
<b>Task 8: Final Engineering (8 Roads) (50%, 90% &amp; Final Submittals)</b>												
N/A												0
Labor Hours Subtotal	0	0	0	0	0	0	0	0	0	0	0	0
Contract Labor Rate Per Hour	\$ 265.00	\$ 244.00	\$ 230.00	\$ 210.00	\$ 205.00	\$ 160.00	\$ 115.00	\$ 133.00	\$ 92.00	\$ 104.00	\$ 85.00	
<b>Labor Costs Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Task Description	Project Principal	Senior Project Manager	Project Manager	Hydraulic Engineer	Senior Engineer	Project Engineer	Engineer -In- Training	Senior Engineering Technician	Engineering Technician	Project Administrator	Clerical	Total Labor Hours & Costs
<b>Task 9: Bidding Phase Services</b>												
N/A												0
Labor Hours Subtotal	0	0	0	0	0	0	0	0	0	0	0	0
Contract Labor Rate Per Hour	\$ 265.00	\$ 244.00	\$ 230.00	\$ 210.00	\$ 205.00	\$ 160.00	\$ 115.00	\$ 133.00	\$ 92.00	\$ 104.00	\$ 85.00	
<b>Labor Costs Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Task Description	Project Principal	Senior Project Manager	Project Manager	Hydraulic Engineer	Senior Engineer	Project Engineer	Engineer -In- Training	Senior Engineering Technician	Engineering Technician	Project Administrator	Clerical	Total Labor Hours & Costs
<b>Task 10: Construction Phase Services</b>												
N/A												0
Labor Hours Subtotal	0	0	0	0	0	0	0	0	0	0	0	0
Contract Labor Rate Per Hour	\$ 265.00	\$ 244.00	\$ 230.00	\$ 210.00	\$ 205.00	\$ 160.00	\$ 115.00	\$ 133.00	\$ 92.00	\$ 104.00	\$ 85.00	
<b>Labor Costs Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

DESCRIPTION											TOTAL MH BY TASK	TOTAL COST BY TASK
Task 1: Project Management											168	\$ 32,281.00
Task 2: Topographic and R.O.W. Surveys											0	\$ -
Task 3: Preliminary Engineering											444	\$ 64,945.00
Task 4: Geotechnical Investigation											0	\$ -
Task 5: Environmental Studies											0	\$ -
Task 6: Utility Coordination											0	\$ -
Task 7: FEMA Coordination											0	\$ -
Task 8: Final Engineering (8 Roads) (50%, 90% & Final Submittals)											0	\$ -
Task 9: Bidding Phase Services											0	\$ -
Task 10: Construction Phase Services											0	\$ -
<b>SUBTOTAL LABOR COST</b>											<b>612</b>	<b>\$ 97,226.00</b>

DIRECT EXPENSES

Description	Unit	Cost/Unit	Quantity	Total Cost
Mileage	mile	\$ 0.535		\$ -
Standard Postage - Letter	each	\$ 0.50		\$ -
Certified Letter Return Receipt	each	\$ 6.70		\$ -
Overnight Mail - Letter Size	each	\$ 25.00		\$ -
Overnight Mail - Oversized Box	each	\$ 30.00		\$ -
Courier Services	each	\$ 50.00		\$ -
Photocopies B/W (8 1/2" x 11")	each	\$ 0.25		\$ -
Photocopies B/W (11" x 17")	each	\$ 0.50	600	\$ 300.00
Photocopies Color (8 1/2" x 11")	each	\$ 1.00	50	\$ 50.00
Photocopies Color (11" x 17")	each	\$ 2.00		\$ -
Plots (B/W on Bond)	square foot	\$ 6.00		\$ -
Plots (Color on Bond)	square foot	\$ 8.00	360	\$ 2,880.00
CDs	each	\$ 0.50	2	\$ 1.00
<b>SUBTOTAL DIRECT EXPENSES</b>				<b>\$ 3,231.00</b>

<b>SUMMARY</b>	
SUBTOTAL LABOR COST	\$ 97,226.00
SUBTOTAL DIRECT EXPENSE	\$ 3,231.00
<b>TOTAL</b>	<b>\$ 100,457.00</b>