

WORK AUTHORIZATION NO. 4

PROJECT: Transportation Planning, Modeling and Studies

This Work Authorization is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated March 10, 2020 and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and Alliance Transportation Group, Inc. (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 \$600,000.00.

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 October 1, 2023. 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: _____

ENGINEER:

Alliance Transportation Group, Inc.

By:  _____

Signature

Mike Heath

Printed Name

President

Title

COUNTY:

Williamson County, Texas

By: _____

Signature

Bill Gravell, Jr.

Printed Name

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

Williamson County will provide a Project Manager and will provide timely reviews and decisions necessary to enable the Engineer to maintain an agreed upon project schedule.

Attachment B - Services to be Provided by Engineer

Tasks 1 – 5 on Exhibit B, of contract between Williamson County and Alliance Transportation Group, Inc. dated March 20, 2020, to support transportation planning, modeling and studies.

Attachment C - Work Schedule

Alliance Transportation Group, Inc. will provide a work schedule for the assigned tasks.

Attachment D - Fee Schedule

Please see next pages.

Alliance Transportation Group

Labor Classification	Labor Rate	1.016 CPI ADJ
Project Principal	\$ 290	294
Senior Project Manager	\$ 274	278
Project Manager	\$ 248	252
Senior Engineer	\$ 213	216
Project Engineer	\$ 194	197
Traffic Engineer	\$ 162	165
Engineer-In-Training	\$ 125	127
Senior Engineering Technician	\$ 145	147
Engineering Technician	\$ 105	107
Jr Engineering Technician	\$ 65	66
Project Administrator	\$ 109	111
Clerical	\$ 86	87
Planner /II	\$ 105	107
Planner III	\$ 135	137
Travel Demand Modeler /II	\$ 140	142
Travel Demand Modeler III	\$ 180	183
Sr Travel Demand Modeler/Planner	\$ 213	216

DIRECT EXPENSES - Alliance Transportation Group

Description	Unit	Cost/Unit
Photocopies B/W (8 1/2" x 11")	each	\$ 0.25
Photocopies B/W (11" x 17")	each	\$ 0.50
Photocopies Color (8 1/2" x 11")	each	\$ 1.00
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
CDs	each	\$ 0.50

CobbFendley

Traffic Engineering	
Labor Classification	Labor Rate
Senior Engineer V or Principal	\$ 290.00
Senior Engineer IV or Project Manager V	\$ 270.00
Senior Engineer III or Project Manager IV	\$ 235.00
Senior Engineer II or Project Manager III	\$ 220.00
Senior Engineer I or Project Manager II	\$ 195.00
Engineer III or Project Manager I	\$ 170.00
Engineer II	\$ 150.00
Engineer I	\$ 125.00
Graduate Engineer	\$ 105.00
Senior Technician III (GIS, Telecom, Utility, CAD, Field)	\$ 165.00
Senior Technician II (GIS, Telecom, Utility, CAD, Field)	\$ 145.00
Senior Technician I (GIS, Telecom, Utility, CAD, Field)	\$ 125.00
Technician III (GIS, Telecom, Utility, CAD, Field)	\$ 100.00
Technician II (GIS, Telecom, Utility, CAD, Field)	\$ 80.00
Technician I (GIS, Telecom, Utility, CAD, Field)	\$ 60.00
Construction Manager III	\$ 280.00
Construction Manager II	\$ 230.00
Construction Manager I	\$ 185.00
Construction Observer III	\$ 155.00
Construction Observer II	\$ 130.00
Construction Observer I Sr Right-of-Way Agent III or ROW Project Manager III	\$ 250.00
Sr Right-of-Way Agent II or ROW Project Manager II	\$ 200.00
Sr Right-of-Way Agent I or ROW Project Manager I	\$ 180.00
Right-of-Way Agent III or ROW Attorney	\$ 160.00
Right-of-Way Agent II	\$ 140.00
Right-of-Way Agent I	\$ 110.00
Right-of-Way Technician	\$ 100.00
Administrative	\$ 105.00
Clerical	\$ 80.00
Field Data Device	\$40.00/unit

Subsurface Utility Engineering	
Labor Classification	Labor Rate
Two-Man Designating Crew (4-Hour Minimum)	\$ 170.00
One-Man Designating Crew (4-Hour Minimum)	\$ 110.00
Vacuum Excavation Truck with 2 Technicians (Vac 6000) (4-Hour Minimum)	\$ 315.00
Vacuum Excavation Truck with 2 Technicians (Vac 3000 & 8000) (4-Hour Minimum)	\$ 295.00
Ground Penetrating Radar with 1 Technician (4-Hour Minimum)	\$ 260.00

Survey	
Labor Classification	Labor Rate
Licensed State Land Surveyor	\$ 235.00
Senior Registered Professional Land Surveyor	\$ 210.00
Registered Professional Land Surveyor	\$ 170.00
4 Person Survey Crew	\$ 190.00
3 Person Survey Crew	\$ 170.00
2 Person Survey Crew	\$ 145.00
1 Person Survey Crew	\$ 105.00
2 Person Hy-Drone Crew	\$ 340.00
2 Person UAV Drone Crew	\$ 235.00
Helicopter Flight Crew Rotary Wing Aircraft (Includes Pilot and LiDAR Operator),	\$ 2,500.00
Helicopter Mobilization Rate – From Base South of Houston	\$ 1,500.00
LiDAR Mobile Mapping System, (Includes Vehicle Operator, LiDAR Technician mileage on project and fuel) (Does not include travel to project)	\$6,150/Day

DIRECT EXPENSES - CobbFendley

Description	Unit	Cost/Unit
In-House Reproduction:		
Copies (Up to 11" x 17")	Each	\$ 0.15
Color Prints (Up to 11" x 17")	Each	\$ 1.50
Color Prints (Larger than 11" x 17")	Each	\$ 3.00
Bluelines (All Sizes)	Each	\$ 1.00
<u>Bond Prints (All Sizes)</u>	Each	\$ 2.00
Mylar Prints	Each	\$ 12.00
Vellum Prints	Each	\$ 9.00

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CJHensch

Labor Classification	Labor Rate
Administrative/Clerical	\$ 52
Support Manager 10+	\$ 131
Traffic Technician 5-15	\$ 48
Traffic Technician - Junior 1-5	\$ 42
Traffic Technician - Senior 15+	\$ 59

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DIRECT EXPENSES - CJ Hensch

Description	Unit	Cost/Unit
24-Hour Automated Tube Counts - Volume	per counter/day	\$ 150.00
24-Hour Automated Tube Counts - Speed or Class	per counter/day	\$ 225.00
2-hour Turning Movement Count, Minor Intersection, Weekday 3 Vehicle Classification Count including Pedestrians and Bicycles	each	\$ 220.00
2-hour Turning Movement Count, Major Intersection, Weekday 3 Vehicle Classification Count including Pedestrians and Bicycles	each	\$ 400.00
Travel Time Runs in DMI-Equipped Vehicle (Includes labor and mileage)	hour	\$ 160.00
Travel Time Runs in DMI-Equipped Vehicle (Includes labor and mileage)	hour	\$ -
Travel Time Run Processing	hour	\$ 65.00
Travel Time- MAC Address (with Turning Movement Count)	per hour /unit	\$ 45.00
Travel Time- MAC Address (without Turning Movement Count) (4 hour minimum)	per hour /unit	\$ 90.00
Additional Hours Turning Movement Traffic Data Collection	hour	\$ 110.00
13-hour Turning Movement Count, Minor Intersection, Weekday 3 Vehicle Classification Count including Pedestrians and Bicycles	each	\$ 750.00
13-hour Turning Movement Count, Major Intersection, Weekday 3 Vehicle Classification Count including Pedestrians and Bicycles	each	\$ 1,350.00
24-hour Turning Movement Count, Minor Intersection, Weekday 3 Vehicle Classification Count including Pedestrians and Bicycles	each	\$ 1,100.00
24-hour Turning Movement Count, Major Intersection, Weekday 3 Vehicle Classification Count including Pedestrians and Bicycles	each	\$ 1,700.00
Spot Speed Study (2 Hours or 150 Vehicle)	each	\$ 200.00

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Surveying and Mapping

Labor Classification	Labor Rate
Principal	\$ 200.00
Senior Project Manager	\$ 175.00
Project Manager	\$ 150.00
Senior Survey Technician	\$ 110.00
Survey Technician	\$ 98.00
Two (2) Person Survey Field Crew	\$ 155.00
Three (3) Person Survey Field Crew	\$ 195.00
Additional Rodperson, Chainperson, Flagperson	\$ 30.00
One (1) Person Survey Field Crew	\$ 115.00
Project Coordinator – Mobile LiDAR	\$ 120.00
Mobile LiDAR Processing Technician	\$ 120.00
Project Coordinator - AM	\$ 120.00
Certified Photogrammetrist	\$ 125.00
Analytical Triangulation Specialist	\$ 110.00
Aerial Mapping Technician	\$ 98.00
Orthophoto Specialist	\$ 98.00
Mapping Editor	\$ 98.00
Aerial Office Technician	\$ 65.00
Project Coordinator - AP	\$ 120.00
Aerial Processing Technician	\$ 100.00
Project Coordinator - FWAL	\$ 120.00
Airborne LiDAR Processing Technician	\$ 100.00
HAL Processing Technician	\$ 98.00
Project Coordinator - HAL	\$ 120.00
Helicopter Flight Crew Rotary Wing Aircraft	\$ 205.00
Helicopter LiDAR Processing Technician	\$ 125.00
Department Manager (SUE)	\$ 200.00
Sr. Project Manager (SUE)	\$ 195.00
Project Manager (SUE)	\$ 177.00
Senior Engineer (SUE)	\$ 177.00
Utility Coordinator	\$ 125.00
Senior Utility Coordinator	\$ 165.00
Utilities Field Inspector	\$ 109.00
Senior Utilities Field Inspector	\$ 129.00
Engineer in Training	\$ 124.00
Phase Manager (SUE)	\$ 124.00
Senior Office Technician (SUE)	\$ 124.00
Office Technician (SUE)	\$ 102.00
Administrative Assistant	\$ 78.00
Field Coordinator/ Field Supervisor	\$ 150.00
Three (3) Person SUE Locating Crew (W/ Equipment)	\$ 279.00
Two (2) Person SUE Field Crew (W/ Equipment)	\$ 190.00
One (1) Person SUE Designating Crew (W/ Equipment)	\$ 100.00
Vac Crew Rate (includes 1 unit with 2-man crew)	\$ 247.00
Vac Crew Rate (overtime) (weekends, work exceeding 8	\$ 265.00

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DIRECT EXPENSES - Survey And Mapping

Description	Unit	Cost/Unit
Control Monuments	Each	\$ 90.00
Ground Target (Includes paint, panel material, etc.)	Each	\$ 20.00
GPS Receiver	Hour	\$ 25.00
Terrestrial Laser Scanner	Hour	\$ 100.00
LIDAR Workstation	Hour	\$ 15.00
Helicopter Rate	Hour	\$ 1,450.00
Fixed Wing Aircraft Rate	Hour	\$ 1,300.00
Aerial LIDAR System	Day	\$ 700.00
Digital Imagery Processing	Each	\$ 32.00
LIDAR Mobile Mapping System	Day	\$ 6,500.00
Aerial Photography Flight Crew (Fixed Wing Aircraft)	Hour	\$ 205.00
LIDAR Flight Crew Fixed Wing Aircraft (Includes Pilot and LIDAR Operator)	Hour	\$ 120.00
Helicopter Flight Crew (Includes Pilot and LIDAR Operator)	Hour	\$ 325.00
AP Transit Miles	Mile	\$ 12.00
AP Project Flight Miles	Mile	\$ 32.00
AP ABGPS Processing	Project	\$ 3,000.00
FWAL Transit Miles	Mile	\$ 12.00
FWAL Project Flight Miles	Mile	\$ 32.00
B&W Processing (film, development, scanning)	Each	\$ 10.00
CIR Processing (film, development, scanning)	Each	\$ 10.00
Color Processing (Film, development, scanning)	Each	\$ 15.00
Digital Image Processing	Each	\$ 27.00
Ground Penetrating Radar (Adder to Designating Crew Rate)	Day	\$ 400.00
Specialty Equipment (Sonde, Radio Beacon, Duct Rodder)	Day	\$ 35.00
Flashing Arrow Board, warning signs (w/stands and traffic cones)	Day	\$ 38.00
ATV or Utility Vehicle	Day	\$ 75.00
Environmental Supplies (Paint, Flags, Lath, Stakes)	Day	\$ 25.00
Pavement Coring	Core	\$ 300.00
Agency As-built Information (Reproduction) Fees	Copy	\$ 10.00
Additional Vehicle (Required for safety or materials)	Day	\$ 200.00
Roadway Bonding Agent	bucket	\$ 110.00

LJA

Labor Classification	Labor Rate
Principal (20+ years)	\$ 285.00
Project Manager (10 to 20 years)	\$ 235.00
Deputy Project Manager (*) (10 to 20 years)	\$ 220.00
Senior Technical Advisor (15+ years)	\$ 205.00
Quality Manager (10 to 20 years)	\$ 220.00
Senior Engineer (15+ years)	\$ 223.00
Project Engineer (10 to 15 years)	\$ 197.00
Design Engineer (5 to 10 years)	\$ 166.00
Utility Engineer (5 to 10 years)	\$ 153.00
Engineer-In-Training (1 to 5 years)	\$ 121.00
Senior Engineer Tech (15+ years)	\$ 137.00
Engineer Tech (5 to 15 years)	\$ 128.00
Junior Engineer Tech (1 to 5 years)	\$ 86.00
Senior CADD Operator (15+ years)	\$ 118.00
CADD Operator (5 to 15 years)	\$ 102.00
Junior CADD Operator (1 to 5 years)	\$ 83.00
Admin/Clerical (years)	\$ 80.00

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DIRECT EXPENSES - LJA

Description	Unit	Cost/Unit
Photocopies B/W (11" X 17")	each	\$ 0.40
Photocopies B/W (8 1/2" X 11")	each	\$ 0.20
Photocopies Color (11" X 17")	each	\$ 2.50
Photocopies Color (8 1/2" X 11")	each	\$ 1.50
Cardstock Color (8 1/2" X 11")	each	\$ 2.00
Digital Ortho Plotting	each	\$ 5.00
Plots (B/W on Bond)	SF	\$ 2.50
Plots (Color on Bond)	SF	\$ 6.00
Plots (Color on Photographic Paper)	SF	\$ 10.00
Color Graphics on Foam Board	SF	\$ 15.00
Presentation Boards 30" X 40" Color Mounted	each	\$ 100.00
Report Printing	each	\$ 200.00
Report Binding and tabbing	each	\$ 20.00