WORK AUTHORIZATION NO. 2

PROJECT: Engineering Services for Hot Mix Asphalt Concrete (HMAC) Widening on CR 200

This Work Authorization is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated <u>May 31, 2022</u> and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and <u>B2Z Engineering, LLC</u> (the "Engineer").

- Part1. 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 **§88,701.00**.
- 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 <u>September 19, 2024</u>. 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 Mar 1	9, 2024
ENGINEER: B2Z Engineering, LLC	COUNTY: Williamson County, Texas
Ву:	By: Bill Gravell (Mar 19, 2024 17:14 CDT)
S <i>j</i> /gnature	Signature
Oliver Salgado	Bill Gravell
Printed Name	Printed Name

Executive Vice-President

Title

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 Road& Bridge Division personnel will provide:

- Project direction, review and oversight
- Existing LIDAR contours and apparent ROW (Wilco's GIS Department)
- Existing roadway centerline alignment
- Geotechnical investigations and pavement design
- Existing culvert sizes and elevations
- Construction oversight, administration and management

Attachment B - Services to be Provided by Engineer

Project Locations:

1. CR 200 from CR 203 to CR 236 (~2.37 miles)

Task 1: Project Management

Attend progress review meetings with Road & Bridge Division at 50%. Prepare monthly progress reports and invoices. Maintain project schedule and perform QA/QC.

Task 2: LIDAR Contours and Apparent R.O.W.

To be provided by the County's GIS Department.

Task 3: Preliminary Engineering

Data collection and field reconnaissance.

Task 4: Geotechnical Investigations

To be provided by the County

(pavement design)

Task 5: Environmental Studies

N/A

Task 6: Utility Coordination

N/A

Task 7: FEMA Coordination

N/A

Task 8: Final Engineering

Determine parallel driveway pipes or utilities in need of replacement due to roadway widening. Prepare final detailed design and PS&E.

Plan Sheets (11"x17"):

- Title Sheet
- Estimate & Quantity Sheet
- Typical Sections
- Construction Notes
- Erosion Control Plan
- Traffic Control/Detour Plans (if necessary)
- Roadway Plan & Plan Sheets showing roadway centerline, stationing, apparent ROW, required erosion control measures, 1' LIDR contours, and aerial background (provided by the County).
- TxDOT standards for proposed improvements to parallel driveway pipes and non-

bridge class cross culverts

Provide general notes and technical specifications, estimates and quantities, and bid form for proposed drainage facility improvements. Provide exhibits (8.5"x11" plan view) for temporary construction and /or drainage easements to facility construction of proposed drainage improvements (if necessary). Exhibits shall show roadway centerline, apparent ROW line, boundary and dimensions of proposed easement for the use in preparing easement documents by others.

Task 9: Bidding Phase Services N/A

Task 10: Construction Phase Services N/A

Deliverables:

50% Submittal:

- Scroll plot of drainage areas and runoff calculations for each roadway
- 11"x17" plan sheets, estimates and quantities for each roadway

100% Submittal:

- Scroll plot of drainage areas and runoff calculations for each roadway
- 11"x17" plan sheets for each roadway
- General Notes and Technical Specifications for each roadway
- Estimates and quantities, bid form for each roadway
- Temporary construction and/or drainage easement exhibits on 8.5"x11" (if necessary)

Final Signed and Seal Submittal:

- 11"x17" plan sheets for each roadway
- Temporary construction and/or drainage easement exhibits on 8.5"x11" (if necessary)

Attachment C - Work Schedule

Please see next page.

		EXHIBIT C			
Task No.	Task Name	Duration (Work Days)	Time	Start	Finish
	1. CR 200 (Approximately 12,508')				
1	WA #1 - Notice to Proceed	0	Days	4/1/2024	4/1/2024
2	Survey (by others)	8	Days	4/1/2024	4/11/2024
3	Design	5	Days	4/11/2024	4/18/2024
4	50% PS&E	5	Days	4/18/2024	4/25/2024
5	QA/QC	1	Days	4/25/2024	4/26/2024
6	Submit 50% PS&E (County Road 200)	0	Days	4/26/2024	4/26/2024
7	County Review	2	Days	4/26/2024	4/30/2024
8	Address 50% comments	1	Days	4/30/2024	5/1/2024
9	100% PS&E	4	Days	5/1/2024	5/7/2024
10	QA/QC	1	Days	5/7/2024	5/8/2024
11	Submit 100% PS&E	0	Days	5/8/2024	5/8/2024
12	County Review	2	Days	5/8/2024	5/10/2024
13	Address 100% comments	1	Days	5/10/2024	5/13/2024
14	Final PS&E	1	Days	5/13/2024	5/14/2024
18	Submit Final PS&E	0	Days	5/14/2024	5/14/2024

Attachment D - Fee Schedule

Please see next page.

Prime Provider B2Z Enginearing, LLC HWY: Various Limits: Various County, Williamson County Method of Payment Lump Sum Sub-Provider Nume:

							MANHOURS						
TANKS TANK			Principal	Project Manager	Senior Engineer	Project Engineer	Engineer-In- Training	Senior Engineering Tech	Engineering Tech	Admin / Clerical	Total Hours/ Sub-Consultant Fee	Number of Sheets	Total Line Item Cost
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Part	3	Periodic Progress Meetings (County)									3		\$730.00
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Part	7	Progress Reports	_	2						∞	11		\$1,375.00
Third State Department Third State Depar	∞	Plans Preparation Submittal	-	-	-	2				2	7		\$1,270.00
Engineering Performance		Task 1 Subtotal Labor Hours	7	15	5	9	1	0	0	29	63		\$10,160.00
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Sing Vision Colored	_			PERFORMED	BY COUNTY								
10 10 10 10 10 10 10 10	Task 3: Prelimi	ary Engineering											
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A				PEKFORMED	BY COUNTY								
NOT APPLICABLE TO PROJECT	Task 5: Environ	mental Studies (N/A)											
NOT APPLICARE TO PROJECT	1	NOT APPLICABLE TO PROJECT											
NOTAPPLICABLE TO PROJECT	Task 6: Utility C	oordination (N/A)											
National Color Col	1	NOT APPLICABLE TO PROJECT											
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CRR 2000 2.3 Miles) PSEE Development CRR 2000 Card van Design	-	NOT APPLICABLE TO PROJECT											
CRA 200 (2.37 Miles) PS&E Development CRA 200 (2.37 Miles) PS CRA 200 (2.37 Miles) P	Task 8: Final E	ngineering											
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	Total Fee Prope	sal	\$4,400.00	\$10,250.00	\$12,095.00	\$24,765.00	\$17,135.00	\$17,360.00	80.00	\$2,175.00	\$88,180.00		
	Sub-Consultan.	Sub-Consultant & Special Service Summary (Without ODE's)	†* †	20.3	1.66	C+11	1.461	100.0	•	1.02			

B2Z Engineering WA#2 Total Cost Total Direct Expenses

Mileage
Photocopies B/W (11" X 17")
Photocopies B/W (8 1/2" X 11")
Photocopies Color (11" X 17")

Total Sub-Consultant & Special Service Fees

Direct Expenses

\$88,701.00

Cost \$250.00 \$126.00 \$15.00 \$130.00 \$521.00

Quantity 400 600 150 100

Unit Price \$0.625 \$0.21 \$0.10 \$1.30

UnitMile
Each
Each
Each

80.00