

SUPPLEMENTAL WORK AUTHORIZATION NO. 4
TO
WORK AUTHORIZATION NO. 1

WILLIAMSON COUNTY ROAD BOND PROJECT:
CR 110 North

This Supplemental Work Authorization No. 4 to Work Authorization No. 1 is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated March 19, 2024 (“Contract”) and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and RPS Infrastructure, Inc. (the "Engineer").

WHEREAS, the County and the Engineer executed Work Authorization No. 1 dated effective March 22, 2024 (the “Work Authorization”);

WHEREAS, pursuant to Article 14 of the Contract, amendments, changes and modifications to a fully executed Work Authorization shall be made in the form of a Supplemental Work Authorization; and

WHEREAS, it has become necessary to amend, change and modify the Work Authorization.

AGREEMENT

NOW, THEREFORE, premises considered, the County and the Engineer agree that the Work Authorization shall be amended, changed and modified as follows:

- I. The Services to be Provided by the Engineer that were set out in the original Attachment “B” of the Work Authorization are hereby amended, changed and modified as shown in the attached revised Attachment “B-4” (must be attached).
- II. The Work Authorization shall terminate on November 30, 2025. The Services to be Provided by the Firm shall be fully completed on or before said date unless extended by additional Supplemental Work Authorization. The revised Work Schedule is attached hereto as Attachment “C-4” (must be attached).
- III. The maximum amount payable for services under the Work Authorization is hereby increased from \$699,559.08 to \$793,223.57. The revised Work Schedule is attached hereto as Attachment “D-4” (must be attached).

Except as otherwise amended by prior or future Supplemental Work Authorizations, all other terms of the Work Authorization are unchanged and will remain in full force and effect.

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

IN WITNESS WHEREOF, the County and the Engineer have executed this Supplemental Work Authorization, in duplicate, to be effective as of the date of the last party's execution below.

ENGINEER:

COUNTY:

By: 
Signature

By: _____
Signature

Kevin Hoffman
Printed Name

Printed Name

Regional Director of Transportation
Title

Title

6/12/2025
Date

Date

LIST OF ATTACHMENTS

Attachment B-4 – Services to be Provided by Engineer

Attachment C-4 – Work Schedule

Attachment D-4 – Fee Schedule

APPROVED
By Christen Eschberger at 1:33 pm, Jun 13, 2025

ATTACHMENT B-4
SERVICES TO BE PROVIDED BY THE ENGINEER FOR
CR 110 NORTH

PROJECT DESCRIPTION

Project Limits

Unchanged under this SWA #4.

Existing Facility

Unchanged under this SWA #4.

Proposed Facility

Unchanged under this SWA #4.

Design Criteria

Unchanged under this SWA #4.

1. PROJECT MANAGEMENT

a. COMMUNICATION:

i. No supplemental scope under this SWA #4.

b. MONTHLY PROGRESS REPORTS, INVOICES, AND BILLINGS:

i. Additional 3 months of Contract Time provided in this SWA #4.

c. QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC) PLAN:

i. No supplemental scope under this SWA #4.

d. PROJECT COORDINATION & ADMINISTRATION:

i. Additional 3 months of Contract Time provided in this SWA #4.

e. PROGRESS/COORDINATION MEETINGS:

i. Additional 3 months of Contract Time provided in this SWA #4.

f. PROJECT SCHEDULE:

i. Additional 3 months of Contract Time provided in this SWA #4.

g. PROJECT DOCUMENTS/FILES:

i. No supplemental scope under this SWA #4.

h. DELIVERABLES:

- i. Monthly Invoices and Progress Reports including Deliverable Table
- ii. Project Specific QA/QC Plan
- iii. Meeting Minutes, Sign-In Sheets, and Agendas
- iv. Project Schedule and Updates
- v. Project Files
- vi. QA/QC Documentation with Deliverable

2. PUBLIC INVOLVEMENT

No supplemental scope under this SWA #4.

3. UTILITY COORDINATION SUPPORT

As this is a Road Bond Project, direct coordination with utilities will be conducted through the County's existing utility coordination contract with Cobb Fendley and Associates. The Engineer will provide support as described below:

a. UTILITY INFORMATION INTO ENGINEERING DRAWINGS

- i. Reviews of utility relocation plans.
- ii. Incorporate utility information into plans and design files.
- iii. Update the design to mitigate impacts with existing/proposed utilities.

b. UTILITY MEETINGS

- i. Meet with the utility coordinator and review utility impacts and potential relocations to identify appropriate approaches to reducing/mitigating impacts.
- ii. Attend meetings with utility providers as requested.

4. CONDEMNATION SUPPORT

No supplemental scope under this SWA #4.

5. SURVEYING

No supplemental scope under this SWA #4.

6. DRAINAGE STUDY REFINEMENT

a. HYDROLOGIC/HYDRAULIC MODELING:

Update H&H models for the Parcel 01 ditches and Cross Culvert 03 due to the adjacent RV development and incorporate the updates into the design.

b. IMPACT AND MITIGATION ANALYSIS:

i. Extended Watershed Analysis:

- Delineate the watershed which encompasses the entire project and its tributary to a single common point of interest (POI).
- Divide full watershed into further subbasins.
- Divide subbasins into onsite and offsite areas based on POIs.
- Determine extended drainage area, imperviousness, SCS curve numbers, and lag time for each subbasin in the existing, interim, and ultimate conditions.
- Identify reaches and junction points connecting the subbasins.
- Determine reach and junction point SCS curve number and lag time.
- Create HEC-HMS model for existing, interim, and ultimate conditions.
- Compute hydrographs for each model and compare the ultimate peak flow rate to existing to determine detention requirements.

ii. Pond Location Alternative Scenario Creation:

- Identify potential detention pond locations based on terrain, land use, and ROW impacts - two pond locations to be identified and analyzed.
- Create two HMS models for interim and ultimate conditions including detention.
- Determine subareas and reaches upstream of each pond location.
- Iteratively calculate the estimated pond dimensions required to ensure the ultimate peak flow is less than or equal to the existing peak flow at the POI for each pond alternative (2 alternatives) to finalize pond location.

- iii. Finalize Pond Modeling at Selected Parcel:
 - Finalize the pond design at the selected parcel, model in OpenRoads using the existing terrain and the proposed roadway model.
 - Update the estimated pond characteristics in the HEC-HMS model with the modeled pond data to ensure the peak flow rate is still reduced adequately.
 - iv. Other Discipline Design Updates:
 - Update adjacent ditches, driveways, ROW, easement, storm sewer etc.
- c. DELIVERABLES:
- Refine Final Drainage Report including applicable detention exhibits, calculations and model revisions.

7. ENVIRONMENTAL SERVICES

No supplemental scope under this SWA #4.

8. GEOTECHNICAL SERVICES

No supplemental scope under this SWA #4.

9. PLAN PREPARATION

a. No supplemental scope under this SWA #4.

b. ROADWAY:

- i. Refine driveways due to ongoing right-of-way negotiations and include appropriate details in the plans.
- ii. Update plans, estimates, and cross sections due to grading modifications at Bell Gin/Jonah, RV site, and near the detention pond.

c. DRAINAGE:

- i. Refine hydraulic calculations for the design of drainage structures and detention structures on the project and include appropriate details in the plans.
- ii. Refine drainage area maps delineating drainage area boundaries based on USGS topographic maps, local contour maps, and/or field survey data.
- iii. Refine design and detail storm sewer system, storm sewer profiles, drainage outfalls, cross drainage structures, culverts, channels, roadside ditches, minimum side slopes, and erosion and sedimentation control.

- iv. Performed additional analysis and detailed design for on-site stormwater detention measures.
- v. Reduce the lengths of the culverts to serve for the interim conditions only. Update the H&H analysis, the plan and profile layouts, and the project quantities and cost estimates.
- d. SIGNING AND MARKINGS:
No supplemental scope under this SWA #4.
- e. TRAFFIC CONTROL:
No supplemental scope under this SWA #4.
- f. WATER QUALITY:
No supplemental scope under this SWA #4.
- g. DELIVERABLES:
 - i. Final PS&E Submittal; see 100%/Final Plan Submittal Checklist
 - ii. Updated Final Drainage Report and Drainage Models

10. PERMITS

No supplemental scope under this SWA #4.

11. BIDDING PHASE SERVICES

No supplemental scope under this SWA #4.

12. EXCLUSIONS

No supplemental scope under this SWA #4.

**ATTACHMENT C-4
WORK SCHEDULE
CR 110 NORTH-PS&E**

ID	Task Name	Duration	Est Start	Est Finish	2025																							
					Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	CR 110 North PS&E	619 days	Fri 3/22/24	Sun 11/30/25	[Gantt bar from 3/22/24 to 11/30/25]																							
2	Notice to Proceed	0 days	Fri 3/22/24	Fri 3/22/24	[Point marker at 3/22]																							
3	Project Management	528 days	Fri 3/22/24	Sun 8/31/25	[Gantt bar from 3/22/24 to 8/31/25]																							
4	Communication	528 days	Fri 3/22/24	Sun 8/31/25	[Blue Gantt bar from 3/22/24 to 8/31/25]																							
5	Monthly Progress Report,invoices	528 days	Fri 3/22/24	Sun 8/31/25	[Blue Gantt bar from 3/22/24 to 8/31/25]																							
6	QA/QC	528 days	Fri 3/22/24	Sun 8/31/25	[Blue Gantt bar from 3/22/24 to 8/31/25]																							
7	Project Coordination & Admin	528 days	Fri 3/22/24	Sun 8/31/25	[Blue Gantt bar from 3/22/24 to 8/31/25]																							
8	Progress/Coordination Meetings	528 days	Fri 3/22/24	Sun 8/31/25	[Blue Gantt bar from 3/22/24 to 8/31/25]																							
9	Project Schedule	528 days	Fri 3/22/24	Sun 8/31/25	[Blue Gantt bar from 3/22/24 to 8/31/25]																							
10	Public Involvement	207 days	Tue 4/16/24	Fri 11/8/24	[Gantt bar from 4/16/24 to 11/8/24]																							
14	Utility Coordination	512 days	Sun 4/7/24	Sun 8/31/25	[Gantt bar from 4/7/24 to 8/31/25]																							
17	Condemnation Support	227 days	Mon 9/16/24	Wed 4/30/25	[Gantt bar from 9/16/24 to 4/30/25]																							
20	Survey	88 days	Mon 7/1/24	Thu 9/26/24	[Gantt bar from 7/1/24 to 9/26/24]																							
23	Hydrology and Hydraulics	92 days	Mon 5/27/24	Mon 8/26/24	[Gantt bar from 5/27/24 to 8/26/24]																							
28	Environmental	69 days	Wed 8/21/24	Mon 10/28/24	[Gantt bar from 8/21/24 to 10/28/24]																							
38	Geotechnical & Pavement Design Reports	86 days	Wed 8/21/24	Thu 11/14/24	[Gantt bar from 8/21/24 to 11/14/24]																							
47	PS&E Production	603 days	Sun 4/7/24	Sun 11/30/25	[Gantt bar from 4/7/24 to 11/30/25]																							
48	Rodaway Modeling	40 days	Sun 4/7/24	Thu 5/16/24	[Gantt bar from 4/7/24 to 5/16/24]																							
53	60% Deliverables	65 days	Thu 6/6/24	Fri 8/9/24	[Gantt bar from 6/6/24 to 8/9/24]																							
60	90% Deliverables	66 days	Sat 8/10/24	Mon 10/14/24	[Gantt bar from 8/10/24 to 10/14/24]																							
67	100% Deliverables	63 days	Tue 10/15/24	Mon 12/16/24	[Gantt bar from 10/15/24 to 12/16/24]																							
74	Final Sealed Deliverables	58 days	Mon 6/23/25	Tue 8/19/25	[Gantt bar from 6/23/25 to 8/19/25]																							
75	Plans	16 days	Mon 6/23/25	Tue 7/8/25	[Blue Gantt bar from 6/23/25 to 7/8/25]																							
76	Specifications	5 days	Wed 7/9/25	Sun 7/13/25	[Blue Gantt bar from 7/9/25 to 7/13/25]																							
77	Estimate	5 days	Wed 7/9/25	Sun 7/13/25	[Blue Gantt bar from 7/9/25 to 7/13/25]																							
78	Quality Control	9 days	Mon 7/14/25	Tue 7/22/25	[Blue Gantt bar from 7/14/25 to 7/22/25]																							
79	100% Submittal	0 days	Tue 7/22/25	Tue 7/22/25	[Point marker at 7/22]																							
80	Client Review	14 days	Wed 7/23/25	Tue 8/5/25	[Blue Gantt bar from 7/23/25 to 8/5/25]																							
81	Addressing Comments	14 days	Wed 8/6/25	Tue 8/19/25	[Blue Gantt bar from 8/6/25 to 8/19/25]																							
82	Bid Advertisement Assistance	103 days	Wed 8/20/25	Sun 11/30/25	[Blue Gantt bar from 8/20/25 to 11/30/25]																							

Attachment D-4 Fee Schedule

Price Proposal		Labor Plan									Price Summary / Totals									
		10 Resource									ITD Revenue		0.00							
											Task Pricing Totals		93664.49							
											Specify Add'l Fees on Setup		0.00							
											Technology Use Fee									
											Total Price		93664.49							
CR 110 North Williamson County - CR 110 SA1 Submitted to: Williamson County (Attn: Bob Daigh) Contract Type: T&M		Bill Rate >	124.33	375.49	243.48	233.70	166.01	147.13	184.86	96.66										
		Proj Area >																		
Project Phases / Tasks		Total Labor Hrs	EIT I	Sr. Managing Engineer	Supervisory Engineer III (10-15 yrs)	Sr. Project Engineer	Project Engineer I (4-8 Yrs)	EIT II	Engineer Designer	Admin	OGA	Labor Rate Esc.	Labor	Subs	Travel	Mat'l's & Equip	ODCs	Task Pricing Totals		
		500	48	23	120	26	69	136	54	24	0.00%	93664.49	-	-	-	-	93664.49			
1. Project Management		82	-	14	44	-	-	-	-	24		18289.82	-	-	-	-	18289.82			
b. Monthly Progress Reports, Invoices, and Billings		24								24		2319.84					2319.84			
d. Project Coordination & Administration		24		4	20							6371.56					6371.56			
e. Progress/Coordination Meetings		24		8	16							6899.60					6899.60			
f. Project Schedule		10		2	8							2698.82					2698.82			
3. Utility Coordination Support		70	16	4	16	16	-	18	-	-		13774.44	-	-	-	-	13774.44			
a. Utility information into Engineering Drawings		50	16		8	8		18				8455.04					8455.04			
b. Utility Meetings		20		4	8	8						5319.40					5319.40			
6. Drainage Study Refinement		180	8	5	48	4	69	36	10	-		34093.89	-	-	-	-	34093.89			
a. Hydrologic/Hydraulic Modeling		21			2		7	12				3414.59					3414.59			
b. Impact and Mitigation Analysis		117	8	3	30	4	42	20	10	-		22123.92	-	-	-	-	22123.92			
i. Extended Watershed Analysis		38			16		22					7547.90					7547.90			
ii. Pond Location Alternative Scenario Creation		24		2	8		10	4				4947.44					4947.44			
iii. Finalize Pond Modeling at Selected Parcel		22					10	6	6			3652.04					3652.04			
iv. Other Discipline Design Updates		33	8	1	6	4		10	4			5976.54					5976.54			
c. Deliverables		42		2	16		20	4				8555.38					8555.38			
9. Plan Preparation		168	24	-	12	6	-	82	44	-		27506.35	-	-	-	-	27506.35			
b. Roadway		74	24	-	-	6	-	20	24	-		11765.33	-	-	-	-	11765.33			
<i>Driveway Modification</i>		36	16			4		8	8			5579.98					5579.98			
<i>Plans, Estimates, and Cross Sections Update</i>		38	8			2		12	16			6185.35					6185.35			
c. Drainage		94	-	-	12	-	-	62	20	-		15741.02	-	-	-	-	15741.02			
<i>Pond Detail Sheet</i>		30			4			26				4799.30					4799.30			
<i>Shorten the Culverts for Interim Condition Only</i>		64			8			36	20			10941.72					10941.72			
Totals		500	48	23	120	26	69	136	54	24	0.00%	93664.49	-	-	-	-	93664.49			