



Project Name: COUTNY ROAD 110 SOUTH

**EXHIBIT C
SUPPLEMENTAL NO. 3 TO
WORK AUTHORIZATION NO. 1**

This Supplemental Work Authorization is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated October 16, 2014 and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (*the "County"*) and Dannenbaum Engineering Company – Austin, LLC (*the "Engineer"*).

Part 1. The *Engineer* will provide the following Additional 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 hereby *increased* by \$48,087.00 for a new maximum amount of \$741,131.06.

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, 2016. 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.

Project Name: COUTNY ROAD 110 SOUTH

EXHIBIT C (con't.)

Part 6. This Work Authorization is hereby accepted and acknowledged below.

ENGINEER:

Dannenbaum Engineering Company
Austin, LLC

By:

in, LLC

Signature

Thomas C. Arndt

Printed Name

President

Title

Date _____

COUNTY:

Williamson County, Texas

By:

Signature

Dan A. Gattis

Printed Name

County Judge

Title

Date _____

LIST OF ATTACHMENTS

Attachment B - Services to be Provided by Engineer

Attachment C – Work Schedule

Attachment D - Fee Schedule

OK
m/v 5/17/21

ATTACHMENT B

SERVICES TO BE PROVIDED BY ENGINEER DANNENBAUM ENGINEERING COMPANY – AUSTIN, LLC

CR 110 SOUTH WILLIAMSON COUNTY, TEXAS

From: US 79 to Limmer Loop
Length: 2.2 miles

DESCRIPTION

Williamson County (County) has requested that Dannenbaum Engineering Company–Austin, LLC (Engineer) a supplemental work proposal for additional Engineering Services pertaining to the County Road 110 South reconstruction project. The services to be provided by the Engineer under this Supplemental Work Authorization shall include the following:

- Additional Right of Way coordination with SAM, Inc., GEC, and Sheets & Crossfield;
- Development quantity summary sheets;
- Plan revisions resulting from Right-of-Way negotiations;
- Additional PS&E review and submittal.

The following is a more detailed description of the specific scope.

ADDITIONAL ENGINEERING SERVICES

I. PROJECT MANAGEMENT

- A. Coordination.** The area has been quickly developed and property ownership has changed over the course of the Right-of-Way acquisition process. Additional coordination effort has been required with SAM, Inc., GEC, and Sheets & Crossfield to update field notes and parcel descriptions. Coordination includes all correspondence, telephone conversations, faxes, and emails between all parties as well as maintaining and uploading electronic versions of all revised documents and delivering hard copies.

II. QUANTITY SHEETS

- A. **Preparation of Quantity Summaries.** The Engineer shall tabulate all project pay items and quantities and develop Quantity Sheets. Separate summary tables will be developed for Traffic Control, Removal, Roadway, Drainage, Retaining Walls, Bridge, Pavement Markings and Signing, and Erosion Control. Quantities shall be tabulated per sheet for each summary table. Summary of Small Signs sheets shall also be developed for the tabulation of project signing. Quantity Sheets shall be developed and provided for the 30%, 60%, 90%, 100%, and Final submittals.

III. FINAL PS&E REVIEW AND SUBMITTAL

- A. **QA/QC Review.** ENGINEER shall provide an additional PS&E Quality Assurance / Quality Control for a final submittal.
- B. **Review Comments and Responses.** ENGINEER shall address Final review comments from the GEC and provide responses. Plan revisions resulting from Right-of-Way negotiations shall be included in the final submittal.
- C. **Final Submittal.** ENGINEER shall prepare and deliver one Final set of Plans, Specifications/General Notes, Quantities and Estimate.

IV. DELIVERABLES**Deliverable Requirements:**

- A. All contract documents, including hard copies and electronic files, shall be turned over to the OWNER at the completion of the project. Contract documents shall be posted to the OWNER'S Internet project management database (if utilized) as requested.
- B. A Final design plan submittal shall be included. Submittals will include 4 hard copies, pdf upload to ProjectWise and zip file upload of current native files.
- C. Final Engineer's Estimated Probable Cost of Construction shall be furnished.
- D. Plans shall be developed to half-scale, 11"x17" unless otherwise determined necessary.

V. EXCLUDED SERVICES

The Engineer shall, at the request of the County, provide the following additional services. Any additional services requested will require a Supplemental Agreement to this Work Authorization.

- A. Services resulting from significant changes in the general project scope, extent or character of the project or scope of work, and revising previously accepted studies, reports, design documents, or contract documents when such revisions are required by changes in laws, rules, regulations, ordinances, codes or orders enacted subsequent to the preparation of such studies, reports, or documents, or are due to any other causes beyond the Engineer's control.
- B. Proposed Pavement Section Design.
- C. Utility Design Engineering, Relocations and/or modifications.
- D. Illumination Design.
- E. Traffic Signal Warrant and Design
- F. Traffic Impact Analysis.
- G. Environmental Assessment or other environmental services required, including permitting.
- H. Preparing to serve or serving as an Engineer or witness for the County in any litigation, arbitration, or other legal or administrative proceeding.
- I. Construction inspection or materials testing for construction purposes.
- J. Any other services not specifically stated within this scope of work.
- K. As Built Survey of the proposed McNutt Creek Bridge
- L. Bridge Drain Details
- M. Construction Phase Services
- N. Record Drawings

Williamson County
CR 110 South From US 79 to Limmer Loop
PS&E Schedule *
February 12, 2016

ID	Task Name	Duration	Start	Finish	
1	PS&E Development	343 days	Mon 11/3/14	Thu 2/25/16	
2	Notice to Proceed - PS&E Development	0 edays	Mon 11/3/14	Mon 11/3/14	
3	Prepare & Execute Subconsultant Contracts	7 edays	Mon 11/3/14	Mon 11/10/14	
4	30% Plans	60 days	Mon 11/3/14	Mon 1/26/15	
5	Prepare 30% Plans	39 edays	Mon 11/3/14	Fri 12/12/14	
6	QA/QC 30% Submittal	12 edays	Fri 12/12/14	Wed 12/24/14	
7	30% PS&E Submittal	0 edays	Wed 12/24/14	Wed 12/24/14	
8	30% GEC Review	26 edays	Wed 12/24/14	Mon 1/19/15	
9	Address 30% Review Comments	7 edays	Mon 1/19/15	Mon 1/26/15	
10	60% Plans	69 days	Mon 1/19/15	Fri 4/24/15	
11	Prepare 60% Plans	45 edays	Mon 1/19/15	Thu 3/5/15	
12	QA/QC 60% Submittal	7 edays	Thu 3/5/15	Thu 3/12/15	
13	60% PS&E Submittal	0 edays	Thu 3/12/15	Thu 3/12/15	
14	60% GEC Review	36 edays	Thu 3/12/15	Fri 4/17/15	
15	Address 60% Review Comments	7 edays	Fri 4/17/15	Fri 4/24/15	
16	90% Plans	47 days	Fri 4/17/15	Tue 6/23/15	
17	90% PS&E Development	14 edays	Fri 4/17/15	Fri 5/1/15	
18	QA/QC 90% Submittal	7 edays	Fri 5/1/15	Fri 5/8/15	
19	90% PS&E Submittal	0 edays	Fri 5/8/15	Fri 5/8/15	
20	90% GEC Review	39 edays	Fri 5/8/15	Tue 6/16/15	
21	Address 90% Review Comments	7 edays	Tue 6/16/15	Tue 6/23/15	
22	Final Plans	182 days	Tue 6/16/15	Thu 2/25/16	
23	100% PS&E Development	20 edays	Tue 6/16/15	Mon 7/6/15	
24	QA/QC 100% Submittal	7 edays	Mon 7/6/15	Mon 7/13/15	
25	100% PS&E Submittal	0 edays	Mon 7/13/15	Mon 7/13/15	
26	100% GEC Review	170 edays	Mon 7/13/15	Wed 12/30/15	
27	Receive and Address Comments	19 edays	Wed 12/30/15	Mon 1/18/16	
28	Final GEC Approval	35 edays	Mon 1/18/16	Mon 2/22/16	
29	Final PS&E Submittal	3 edays	Mon 2/22/16	Thu 2/25/16	
30	Bid Phase	63 days	Thu 2/25/16	Tue 5/24/16	
31	Advertise	30 edays	Thu 2/25/16	Sat 3/26/16	
32	Letting Date	0 edays	Sat 3/26/16	Sat 3/26/16	
33	Award Contract	45 edays	Sat 3/26/16	Tue 5/10/16	
34	Begin Construction	0 edays	Tue 5/24/16	Tue 5/24/16	

CR 110 Attachment C_Schedule mpp

Notes: * Should Agency Review or Permit approval times exceed those shown in this attachment, the contract schedule shall be adjusted accordingly;
**** Dependent upon Property Owner Permissions; *** Weather Permitting**

SUPPLEMENTAL NO. 3 TO WORK AUTHORIZATION NO. 1
ATTACHMENT D - FEE SCHEDULE
DANNENBAUM ENGINEERING COMPANY - Austlin, LLC
PROJECT SCOPE: CONSTRUCTION PHASE SERVICES

ATTACHMENT D / FEE SCHEDULE

CR 110 SOUTH
FROM: US 79 to Limmer Loop

DATE: 12-Feb-10

TASK AND DESCRIPTION	ESTIMATED PLAN SHEET REQUIREMENTS	PROJECT MANAGER	QA/QC ENGINEER	SENIOR ENGINEER	SENIOR PROJECT ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	GRADUATE ENGINEER	SENIOR DESIGN TECHNICIAN	CADD TECHNICIAN	CLERICAL	TOTAL
		HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	
I. Coordination												
A. ROW Coordination												
1 Coord With G.E.C.	n/a			12								12
2 Coord With Sheets & Crossfield	n/a			6								6
3 Coord With SAM, Inc.	n/a			12								12
SUBTOTAL				30								30
II. QUANTITIES, ESTIMATE & SUMMARY SHEETS												
A. Quantities (Final)												
1 Traffic Control	n/a			3					1			4
2 Removal	n/a			2					1			1
3 Roadway	n/a			1	1							2
3 Drainage	n/a			1	1							2
4 Retaining Walls	n/a			1	1				1			2
4 Bridge	n/a			1	1				1			2
5 Signing & Pymt Markings	n/a			1	1				1			2
6 Erosion Control	n/a			1	1				1			2
B. Cost Estimate (Final)												
1 Traffic Control	n/a			1	1							2
2 Removal	n/a			1	1							1
3 Roadway	n/a			3	1							4
3 Drainage	n/a			1	1							1
4 Retaining Walls	n/a			1	1							1
4 Bridge	n/a			1	1							1
5 Signing & Pymt Markings	n/a			1	1							1
6 Erosion Control	n/a			1	1							1
C. Quantity Summaries (30%, 60%, 90%, 100% & Final)												
1 Traffic Control	n/a			10				15				25
2 Removal	n/a			5				10				15
3 Roadway	n/a			10				15				25
3 Drainage	n/a			5				10				15
4 Retaining Walls	n/a			5				5				10
4 Bridge	n/a			5				5				5
5 Signing & Pymt Markings	n/a			5				10				15
5 Erosion Control	n/a			5				5				10
6 Summary of Small Signs	n/a			5				10				15
SUBTOTAL				71	5			85	5			166
III. PLAN REVIEW & FINAL PLAN SUBMITTAL												
A. QA/QC Review (Final Submittal)	n/a			4								12
B. Respond to Review Comments	n/a		8	4								4
C. Address Comments	n/a			2	4	4		16	4			30
C. Final Plan Submittal	n/a			16	24	24		24	16			104
SUBTOTAL			8	26	28	28		40	20			150
IV. TOTAL PROJECT HOURS			8	127	33	28		125	25			346

ATTACHMENT D / FEE SCHEDULE

CR 110 SOUTH
FROM: US 79 to Limmer Loop

DATE: 12-Feb-16

SUPPLEMENTAL NO. 3 TO WORK AUTHORIZATION NO. 1
ATTACHMENT D - FEE SCHEDULE
DAMMENBAUM ENGINEERING COMPANY - Austin, LLC
PROJECT SCOPE: CONSTRUCTION PHASE SERVICES

TASK AND DESCRIPTION	PROJECT MANAGER	SENIOR STRUCTURE /HYDR ENGR	SENIOR ENGINEER	SENIOR PROJECT ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	GRADUATE ENGINEER	SENIOR DESIGN TECHNICIAN	CADD TECHNICIAN	CLERICAL	TOTAL
I. Coordination	\$215.00	\$215.00	\$190.00	\$155.00	\$120.00	\$115.00	\$95.00	\$115.00	\$85.00	\$50.00	30
HOURLY RATE											
TOTAL HOURS			30								
TOTAL COST	\$	\$	\$ 5,400.00	\$	\$	\$	\$	\$	\$	\$	\$ 5,400.00
II. QUANTITIES, ESTIMATE & SUMMARY SHEETS			71	5			85	5			166
TOTAL HOURS											
TOTAL COST	\$	\$	\$ 12,780.00	\$ 775.00	\$	\$	\$ 8,075.00	\$ 575.00	\$	\$	\$ 22,205.00
III. PLAN REVIEW & FINAL PLAN SUBMITTAL			28	28	28		40	20			150
TOTAL HOURS											
TOTAL COST	\$	\$	\$ 4,680.00	\$ 4,340.00	\$ 3,360.00	\$	\$ 3,800.00	\$ 2,300.00	\$	\$	\$ 20,200.00
IV. TOTAL PROJECT HOURS			127	33	28		125	25			348
TOTAL COST	\$	\$	\$ 22,960.00	\$ 5,115.00	\$ 3,360.00	\$	\$ 11,875.00	\$ 2,875.00	\$	\$	\$ 47,805.00
Percent of Total Cost			48%	11%	7%		25%	6%			100%
OTHER DIRECT COSTS											
Printing	\$282.00										
Postage/Delivery											
Misc. Supplies											
Travel											
TOTAL OTHER DIRECT COSTS	\$282.00										
TOTAL CONTRACT COST											\$48,087.00
TOTAL LABOR											\$47,805.00
OTHER DIRECT COSTS											\$282.00
TOTAL COST											\$48,087.00

DIRECT REIMBURSABLE EXPENSES

Reproduction (Mylars Prints, & Xerox)

Submittal	No. of Shts. per pkg.	24 x 36		11 x 17		11 x 17	8 1/2 x 11	36 "x 4 ft Rolls *	
		Plots	Prints	Plots	Prints	Color Copies	Copies	Color	Black
1. Work sheets				300	300 (1 Sets)			14	
2. Final Draw				300	1,200 (4 Sets)			0	
3. Reports						0	500		
Totals		0	0	600	1,500	0	500	14	0

Costs:	Prints - 24 x 36					x	=	\$0.00
	Prints - 11 x 17					x	=	\$0.00
	Plots - 24 x 36					x	=	\$0.00
	Plots - 11 x 17					x	=	\$0.00
	Color Rolls - 36 "x 4 ft Rolls * @ \$3.00 / SF			0	each	x	\$36.00	\$0.00
	Mylars - 11 x 17			0	each	x	\$1.00	\$0.00
	Rolls - B&W 36" x 17'				each	x		\$0.00
	B&W Copies - 11 x 17			2,100	Sheets	x	\$0.12	\$252.00
	Color Copies - 11 x 17			0	Sheets	x	\$2.00	\$0.00
	Copies - 8 1/2 x 11			500	Sheets	x	\$0.06	\$30.00
SUBTOTAL								\$282.00
TOTAL EXPENSES								\$282.00