

Project Name: US 183 (Riva Ridge Dr. to SH 29)

IN WITNESS WHEREOF, the *County* and the *Engineer* have executed this supplemental agreement in duplicate,

ENGINEER:

Dannenbaum Engineering Company -
Austin, LLC

By: 

Signature

Thomas C. Arndt, P.E.

Printed Name

President

Title

03-05-2011

Date

COUNTY:

Williamson County, Texas

By: 


Signature

Printed Name

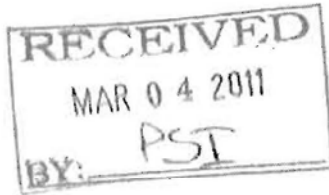
Title

03-27-11

Date

OK


Project Name: US 183 (Riva Ridge Dr. to SH 29)



ATTACHMENT A

SUPPLEMENTAL NO. 1
TO WORK AUTHORIZATION NO. 5

This Supplemental Work Authorization is made pursuant to the terms and conditions of the Agreement 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 engineering services:

See Exhibit B.

Part 2. The maximum amount payable for services under this Supplemental Work Authorization without modification is \$136,944.00.

Part 3. Payment to the **Engineer** for the services established under this Supplemental Work Authorization shall be made in accordance with the Agreement.


Part 4. This Supplemental Work Authorization shall become effective on the date of final acceptance of the parties hereto and shall terminate on December 31, 2012, unless extended by a Supplemental Work Authorization.

Part 5. This Supplemental Work Authorization does not waive the parties' responsibilities and obligations provided under the Agreement.

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

ENGINEER:

Dannenbaum Engineering Company -
Austin, LLC

By: 
Signature

Thomas C. Arndt, P.E.
Printed Name

President
Title

03-03-2011
Date

COUNTY:

Williamson County, Texas

By: 
Signature

Dan A. Gattis
Printed Name

County Judge
Title

03-23-11
Date

OK
my

Project Name: US 183 (Riva Ridge Dr. to SH 29)

LIST OF EXHIBITS

Exhibit A - Services to be Provided by County

Exhibit B - Services to be Provided by Engineer

Exhibit C - Fee Schedule

EXHIBIT A

SUPPLEMENTAL NO. 1 TO WORK AUTHORIZATION NO. 5

SERVICES TO BE PROVIDED BY COUNTY

US 183 WILLIAMSON COUNTY, TEXAS

Riva Ridge Drive to SH 29
Length: 3.70 miles

PROJECT STATEMENT

This **PROJECT** is a TxDOT project being developed by Williamson County as a Pass-Through Toll project. The project will be constructed according to the 2004 TxDOT Standards and Specifications and Federal Highway Administration guidelines, and shall be subject to the terms of the Master Agreement between Williamson County and TxDOT.

DESCRIPTION

In August 2009, Williamson County awarded Dan Williams Company the construction contract for the US 183 project from Riva Ridge Drive to SH 29. The County has requested Dannenbaum Engineering Company – Austin, LLC (Dannenbaum) team to provide a proposal for Construction Phase Services pertaining to this project.

Existing Facility

The existing facility is a rural four-lane roadway from US 183 from Riva Ridge Drive to SH 29.

Proposed Facility

The proposed facility is two two-lane frontage roads divided by 256 foot Future Transportation Corridor from Riva Ridge Drive to SH 29. Construction includes traffic control, grading, bridges, drainage structures, retaining walls, water quality ponds, erosion & sedimentation control, traffic signals, utilities, signing and pavement markings.

In conjunction with the services to be provided by the Engineer, as described in Exhibit B, the COUNTY shall provide the following, as available:

1. The COUNTY shall relay pertinent Requests for Information (RFI), Submittals, Shop Drawings, Change Orders, or questions/inquiries within two (2) days of receiving them from the contractor in order for Dannenbaum to provide a timely response.

EXHIBIT B

SUPPLEMENTAL NO. 1 TO WORK AUTHORIZATION NO. 5

SERVICES TO BE PROVIDED BY ENGINEER

US 183

WILLIAMSON COUNTY, TEXAS

Riva Ridge Drive to SH 29
Length: 3.70 miles

PROJECT STATEMENT

This PROJECT is a TxDOT project being developed by Williamson County as a Pass-Through Toll project. The project will be constructed according to the 2004 TxDOT Standards and Specifications and Federal Highway Administration guidelines, and shall be subject to the terms of the Master Agreement between Williamson County and TxDOT.

I. DESCRIPTION

The County has requested Dannenbaum Engineering Company – Austin, LLC (Dannenbaum) team to provide a supplemental work proposal for Construction Phase Services pertaining to this project. The following is a more detailed description of the specific scope.

II. GENERAL

1. Dannenbaum understands that the County has hired HDR, Inc. for construction inspection and those submittals, requests for information (RFI), and change orders not addressed by HDR, Inc. will be forwarded to Dannenbaum.
2. Construction Phase Services shall include coordination, submittal reviews, responses to request for information and change orders.

III. ADDITIONAL CONSTRUCTION PHASE SERVICES

1. The ENGINEER shall coordinate with G.E.C., TxDOT, Williamson County, HDR, Contractor, and sub-consultant. Coordination will include all correspondence, telephone conversations, faxes, and meetings.
2. Attend project site visits and meetings. A maximum of six (6) project site visits and meetings are estimated at four (4) hours each. If the ENGINEER determines that additional project site visits are required to competently address remaining submittals, RFI's, Shop Drawings, field problems and resolutions, or to attend additional progress meetings, the Engineer shall submit a supplemental agreement for approval.

3. Review five (5) Submittals.
4. Provide a response and design as needed to owner for each Request for Information (RFI's). An estimated total of twenty (20) RFI's.
5. An estimated total of two (2) change orders for any matter that becomes a change order. The County will not be billed for change orders resulting from Engineering errors and omissions.
6. Resolve field problems and provide input. An estimated total of Six (6) field problem resolutions.

IV. PLAN REVISIONS REQUIRING ADDITIONAL LEVEL OF EFFORT

1. **Rock Nail Wall "C":** Designed and Developed a Rock Nail Retaining Wall Details plan sheet with typical panel details, under drain details, prefabricated drainage details, and closure pour reinforcement details. Revised quantities and estimated costs.
2. **Bog Soils:** Raised US 183 Southbound profile and provided a 1' minimum ditch depth. Revised the following affected plan sheets: Roadway Summary Sheet, Erosion Control Summary, Roadway Profile, Roadway Profile Ramps, Roadway Profile U-Turns, Grading Details, Intersection Details, and SW3P Layout. Revised Plan and Profiles to include an underdrain traverse to the roadway at the beginning of the bog and parallel to the roadway for the length of bog to daylight into the west ditch. Provided underdrain details and estimated quantities for the above.
3. **Detour A Plan and Estimate:** Developed plan and profile, quantities and estimate for an additional temporary 4-lane detour south of proposed Drainage Structure No. 6 (Station 1187+00 approx). The new detour would provide the County additional time to acquire the USACE permit for construction of Drainage Structures No. 5, 5a, and 6.
4. **4-lane Detour 1 Plans and Estimate:** Re-designed Detour 1 from a 2-lane to 4 lane pavement. Developed Detour 1 plan and profile and provided quantities and estimate.
5. **Temporary Northbound Connection:** Evaluated and provided quantities and estimate for a temporary northbound US 183 connection from the proposed northbound pavement to the existing US 183 4-lane roadway near the First Texas Bank.
6. **Out of Phase Traffic Control Revisions:** Revised traffic control phasing at SH 29 to accommodate out-of-phase sequence of construction. Revised traffic control sheets to accommodate the out-of-phase 4-lane Detour 1.
7. **Utility Conflicts and Coordination:** Provided utility coordination with Alba Consultants, HNTB, HDR, AT&T, and Half Associates. Evaluated and identified utility conflicts based on pothole data provided.
8. **Turn Lane Design and Estimate:** Designed turn lanes at South Gabriel Drive and Signal Hill Drive. Revised traffic control plans and developed quantities and cost estimate.

V. EXCLUDED SERVICES

1. Attending weekly project meetings.
2. Record Drawings.

VI. ESTIMATED FEES

Exhibit C identifies the man-hours for additional construction phase services and for the plan revisions that required additional level effort to date. Dannenbaum will provide the additional services described above on a Time and Material basis. Services beyond those detailed in the Sections above shall require a supplemental agreement.

EXHIBIT C / FEE ESTIMATE

US 183

Construction Phase Services (Supplemental)

DATE: 3-Mar-11

SUPPLEMENTAL TO WORK AUTHORIZATION NO. 5

EXHIBIT C - FEE SCHEDULE

DANNENBAUM ENGINEERING COMPANY - Austin, LLC

PROJECT SCOPE: Construction Phase Services

TASK AND DESCRIPTION	PROJECT MANAGER HOURS	SENIOR STRUC/ HYDR ENGR HOURS	SENIOR ENGINEER HOURS	PROJECT ENGINEER HOURS	DESIGN ENGINEER HOURS	GRADUATE ENGINEER HOURS	CADD TECHNICIAN HOURS	CLERICAL HOURS	TOTAL
I ADDITIONAL CONSTRUCTION PHASE SERVICES									
1 Coordination with Owner									
2 Coordination with Sub	2.0		12.0						14.0
3 Coordination with HDR	2.0		6.0						6.0
4 Project Management	2.0		24.0						26.0
5 Project Site Visits and Meetings (6)	3.0		12.0						14.0
6 Submittal Reviews (5)	2.0	5.0	24.0		20.0				27.0
7 Respond to RFI's (20)	2.0	2.0	20.0		10.0	60.0		10.0	204.0
8 Field Problem Resolutions (6)		6.0	48.0			30.0		3.0	87.0
9 Change Orders (2)		4.0	24.0		4.0			2.0	34.0
SUBTOTAL	13.0	17.0	290.0	0.0	34.0	90.0	0.0	15.0	459.0
II. PLAN REVISIONS REQUIRING ADDITIONAL EFFORT									
1 Rock Nail Wall "C"		4.0		2.0	16.0		7.0		29.0
2 Box Soils			13.0						13.0
3 Detour A Plans and Estimate			12.0			5.0			17.0
4 4-Lane Detour 1 Plans and Estimate			22.0			23.0	4.0		49.0
5 Temporary Northbound Connection			7.0						7.0
6 Out of Phase Traffic Control Revisions			166.0	41.0		124.0	28.0		359.0
7 Utility Conflicts and Coordination			28.0			9.0			37.0
8 Turn lane Design and Estimate			18.0			3.0			21.0
SUBTOTAL	0.0	4.0	266.0	43.0	16.0	164.0	39.0	0.0	532.0
III. TOTAL PROJECT HOURS	13.0	21.0	556.0	43.0	50.0	254.0	39.0	15.0	991.0

EXHIBIT C / FEE ESTIMATE

SUPPLEMENTAL TO WORK AUTHORIZATION NO. 5

EXHIBIT C - FEE SCHEDULE

DANNENBAUM ENGINEERING COMPANY - Austin, LLC

PROJECT SCOPE: Construction Phase Services

US 183

Construction Phase Services (Supplemental)

DATE:

03-Mar-11

TASK AND DESCRIPTION		HOURLY RATE	PROJECT MANAGER	SENIOR HYDR ENGR	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	GRADUATE ENGINEER	CADD TECHNICIAN	CLERICAL	TOTALS
I. ADDITIONAL CONSTRUCTION PHASE SERVICES	TOTAL HOURS	13.0	\$56.23	\$57.80	\$49.99	\$39.05	\$35.93	\$31.87	\$26.24	\$18.12	459.0
	FIXED FEE		\$212.73	\$285.91	\$4,218.18	\$-	\$355.46	\$834.55	\$-	\$79.09	\$5,985.92
	DIRECT SALARY COST		\$2,127.27	\$2,859.09	\$42,181.82	\$-	\$3,554.55	\$8,345.45	\$-	\$790.91	\$59,859.09
	DIRECT OVERHEAD AND PROFIT		\$2,340.00	\$3,145.00	\$46,400.00	\$-	\$3,910.01	\$9,180.00	\$-	\$870.00	\$65,845.01
II. PLAN REVISIONS REQUIRING ADDITIONAL EFFORT	TOTAL HOURS			4.0	286.0	43.0	16.0	164.0	39.0		532.0
	FIXED FEE		\$-	\$67.27	\$3,869.09	\$488.64	\$167.27	\$1,520.73	\$297.82	\$-	\$6,410.82
	DIRECT SALARY COST		\$-	\$672.73	\$38,690.91	\$4,886.36	\$1,672.73	\$15,207.27	\$2,978.18	\$-	\$64,108.18
	DIRECT OVERHEAD AND PROFIT		\$-	\$740.00	\$42,560.00	\$5,375.00	\$1,840.00	\$16,728.00	\$3,276.00	\$-	\$70,519.00
III. TOTAL PROJECT HOURS	TOTAL HOURS	13.0		21.0	556.0	43.0	50.0	254.0	39.0	15.0	991.0
	FIXED FEE		\$212.73	\$353.18	\$8,087.27	\$488.64	\$522.73	\$2,355.27	\$297.82	\$79.09	\$12,396.73
	DIRECT SALARY COST		\$2,127.27	\$3,531.82	\$80,872.73	\$4,886.36	\$5,227.27	\$23,552.73	\$2,978.18	\$790.91	\$123,967.27
	DIRECT OVERHEAD AND PROFIT		\$2,340.00	\$3,885.00	\$88,960.00	\$5,375.00	\$5,750.00	\$25,908.00	\$3,276.00	\$870.00	\$136,364.00
Percent of Total Cost			2%	3%	65%	4%	4%	19%	2%	1%	100%
OTHER DIRECT COSTS											
Printing		\$50.00									
Postage/Delivery		\$150.00									
Misc. Supplies		\$200.00									
TOTAL OTHER DIRECT COSTS		\$180.00									
TRAVEL		\$580.00									
TOTAL SUPPLEMENTAL CONTRACT COST											\$136,944.00

OTHER DIRECT COSTS

Printing

Postage/Delivery

Misc. Supplies

TRAVEL

TOTAL LABOR

OTHER DIRECT COSTS

TOTAL COST

TOTAL SUPPLEMENTAL CONTRACT COST

US 183

SUPPLEMENTAL TO WORK AUTHORIZATION NO. 5**EXHIBIT C - FEE SCHEDULE****Construction Phase Services (Supplemental)**

DATE: 03-Mar-11

DANNENBAUM ENGINEERING COMPANY - Austin, LLC

PROJECT SCOPE: Construction Phase Services

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									
2. Final Draw				0					
3. Reports						10	500		
Totals						10	500		

Costs:	Color Rolls -	36	x	4	ft Rolls * @	\$3.00 / SF	each	x	\$36.00		
	Mylars -	11 x 17					each	x	\$1.00		
	B&W Copies -	11 x 17					Sheets	x	\$0.12	=	
	Color Copies -	11 x 17				10	Sheets	x	\$2.00	=	\$20.00
	Copies -	8 1/2 x 11				500	Sheets	x	\$0.06	=	\$30.00
											<u>\$30.00</u>
										SUBTOTAL	\$50.00

Preliminary Engineering Report	each	x	\$25.00	
Drainage Report	each	x	\$25.00	
Project Manual	each	x	\$50.00	
			SUBTOTAL PRINTING	\$50.00

Travel

To Agencies

(Per Diem)	_____ trips x	<u>1</u>	People	x	<u>\$30.00</u>	days/trip x	1	
(Com)	_____ trips x	<u>1</u>	People	x	<u>\$300.00</u>	per/trip =		
(POV)	_____ trips x	<u>50</u>	Miles	x	<u>\$0.550</u>	per mile =		
(Rental)	_____ trips x	<u>1</u>	days/trip	x	<u>\$70.00</u>	daily rate =		
To Project Site								
(Per Diem)	_____ trips x	<u>1</u>	People	x	<u>\$110.00</u>	days/trip x	2	
(Com)	_____ trips x	<u>1</u>	People	x	<u>\$300.00</u>	per/trip =		
(POV)	<u>6</u> trips x	<u>60</u>	Miles	x	<u>\$0.500</u>	per mile =		\$180.00
(Rental)	_____ trips x	<u>1</u>	days/trip	x	<u>\$70.00</u>	daily rate =		
								<u>\$180.00</u>
SUBTOTAL								\$180.00

$$\text{Shipping} \quad \underline{15} \text{ packages} \quad \times \quad \underline{\$10.00} \text{ /Pkg.} \quad = \quad \underline{\$150.00}$$

Misc Supplies	\$200.00
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TOTAL EXPENSES	\$580.00
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