

**AGENDA ITEM 22**

**Consider approving additional services for wooden bridges at CR 424 and CR 434.**

Mr. Weaver stated that the request from HDR includes engineering plans for a new bridge on CR 424 and an old trestle bridge on CR 434, requiring approximately \$111,000 to be added to the contract.

**Moved: Commissioner Limmer**

**Seconded: Commissioner Hays**

**Motion: To approve an additional services request from HDR for wooden bridges at CR 424 and CR 434.**

**Vote: 5 - 0**

< Attachment >

Contract No. \_\_\_\_\_

3 of 4 Pages

## ATTACHMENT A

SUPPLEMENTAL AGREEMENT NO. 1 TO  
WORK AUTHORIZATION NO. 3

This supplemental Agreement to the 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 HDR Engineering, Inc. (the "Engineer").

**Part 1.** The *Engineer* will provide the following additional engineering services:

Provide Plans, Specifications, and Estimate and Bid package information for the replacement of the timber bridges at C.R. 424 and C.R. 434 plans will meet TxDOT Criteria as outlined in the attached supplemental Attachment B— Scope of Services.

**Part 2.** The maximum amount payable for services under the Work Authorization is increased by one hundred eleven thousand nine hundred seventy one dollars and no cents (\$111,971). This is an increase from two hundred thirty seven thousand six hundred seventy nine dollars and no cents (\$237,679) to three hundred thirty thousand seven hundred fifty eight dollars and no cents (\$349,650).

**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 March 31, 2003, 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:

HDR Engineering, Inc.

By: \_\_\_\_\_

Signature

James K. (Ken) Haney, P.E.  
Printed Name

Executive Vice President  
Title

April 30, 2002  
Date

COUNTY:

Williamson County, Texas

By: \_\_\_\_\_

Signature

John C. Doerfler  
Printed Name

County Judge  
Title

5-13-02  
Date

OK  
NY  
5-8-2002

Contract No. \_\_\_\_\_

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**LIST OF EXHIBITS**

- Exhibit A - Services to be Provided by County**
- Exhibit B - Services to be Provided by Engineer**
- Exhibit C - Work Schedule**
- Exhibit D - Fee Schedule**

**CONTRACT FOR ENGINEERING SERVICES  
SUPPLEMENTAL AGREEMENT NO. 1  
FOR THE PROFESSIONAL SERVICES AGREEMENT**

STATE OF TEXAS           §  
COUNTY OF WILLIAMSON §

**THIS SUPPLEMENTAL AGREEMENT** to contract for engineering services is by and between Williamson County, Texas, a political subdivision of the State of Texas, (*the "County"*) and HDR Engineering, Inc. (*the "Engineer"*) and becomes effective when fully executed by both parties.

**WHEREAS**, the County and the Engineer executed a contract on the 14<sup>th</sup> day of August, 2001.;

**WHEREAS**, the not-to-exceed fee in Exhibit I Section 1 Item 1.1 limits the not-to-exceed fee payable under the agreement to \$500,000.00 ; and,;

**WHEREAS**, Compensation Cap in Exhibit I Section 4 Item 4.3 limits the maximum amount payable under the agreement to \$500,000.00 ; and,

**WHEREAS**, it has become necessary to amend the agreement.

**AGREEMENT**

**NOW THEREFORE**, premises considered, the County and the Engineer agree that said contract is amended as follows:

- I. The not-to-exceed fee in Exhibit I Section 1 Item 1.1 limits the not-to-exceed fee payable under the agreement is increased from \$500,000.00 to \$1,000,000.00.
- II. The Compensation Cap in Exhibit I Section 4 Item 4.3 limits the maximum amount payable under the agreement is increased from \$500,000.00 to \$1,000,000.00.

All other provisions are unchanged and remain in full force and effect.

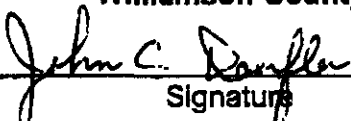
**IN WITNESS WHEREOF**, the State and the Engineer have executed this supplemental agreement in duplicate.

By:   
Signature

James K. (Ken) Haney, P.E.  
Printed Name

Executive Vice President  
Title

April 30, 2002  
Date

Williamson County  
By:   
Signature

John C. Doerfler  
Name

Williamson County Judge  
Title

5-13-02  
Date

OK  
Mep  
5-2-2002

Contract No. \_\_\_\_\_

1 of 1 Pages

**EXHIBIT A****SERVICES TO BE PROVIDED BY THE COUNTY**

The COUNTY will provide to the ENGINEER the following:

- Plans of existing facilities in the area of the project.
  - Plans for the existing truss if available.
  - Maps of the project area.
  - Any historic data/ information.
  - Location for truss storage prior to relocation to new site.
  - Location of and access to site for proposed truss relocation site.
  - Provide Geotechnical information for truss relocation site in the format requested below.
  - Plans for the project under which truss relocation site is being constructed.
  - Any studies and reports performed by or for the county, TxDOT or other governmental.
  - TxDOT BRINSAP reports.
  - Williamson County Bid Package.
  - Williamson County Average Bid Tabulations.
  - Any environmental documents or clearances required.
  - All coordination and permitting with governmental agencies (ie US Corp of Engineers, FEMA, etc.).
  - Provide Geotechnical report, foundation recommendations and TxDOT - Wincore formatted borings as follows:
    - CR 406 - two borings for box culvert or bridge foundation design. One sieve analysis of channel bed material for scour analysis if a bridge structure is selected.
    - CR 351 - one boring for box culvert foundation
    - CR 351 - two borings for cutoff wall design for existing head cut in channel. One sieve analysis of channel bed material for hydraulic design.
    - CR 390 - one boring for box culvert foundation.
    - CR 427 - one boring for box culvert foundation.
    - CR 424 - one boring for box culvert foundation.
    - CR 434 - two borings for bridge foundation design. One sieve analysis of channel bed material for scour analysis.
  - Provide existing traffic volumes at each site.
  - Provide ROW information to surveyors.
  - Provide Right-of-Entry for surveyors to enter adjacent properties.
  - Provide bucket truck or boom truck for truss field inspection.
  - Provide any hydraulic analysis for the truss relocation site.
  - Provide microstation file with the alignment for the truss relocation site.
-

**EXHIBIT B**  
**PROJECT SCOPE FOR**  
**SUPPLEMENTAL AGREEMENT #1**  
**WORK AUTHORIZATION #3**

**Services to be Provided by the Engineer (Provider)**

This document outlines the scope of services that will be provided in developing the construction plans for the bridge replacements at CR 424 and additions to CR 434 for TxDOT approval. The development of the plans will concentrate on the use of box culverts where possible and cost effective. The fee estimate is based on CR 351 and CR 424 being combined as Bid Package number 2 and CR 434 will be a stand alone for Bid package number 3. The deliverables will be provided at 90% and 100% plans. The items for each deliverable are as follows:

**I. PROJECT DELIVERABLES**

**A. 90% deliverable**

- (1) Title / Index sheet
- (2) Typical Section sheet
- (3) Summary sheet
- (4) Plan and profile / Culvert Layout sheet
- (5) Bridge Layout sheet (if required)
- (6) Bridge detail sheets (if required)
- (7) Drainage Area Map Sheet
- (8) Hydraulic Computation sheet
- (9) Detour and Traffic Handling sheet
- (10) SW3P sheet
- (11) General Notes and Specifications
- (12) Preliminary Bid package
- (13) Engineers estimate
- (14) Standards

**B. 100% deliverable (Signed and Sealed Mylar 11x17 sheets)**

- (1) Title / Index sheet
- (2) Typical Section sheet
- (3) Summary sheet
- (4) Plan and profile / Culvert Layout sheet
- (5) Bridge Layout sheet (if required)
- (6) Bridge Detail sheets (if required)
- (7) Drainage Area Map Sheet
- (8) Hydraulic Computation sheet
- (9) Detour and Traffic Handling sheet
- (10) General Notes and Specifications
- (11) Bid package
- (12) Engineers estimate

2-16-91

## (13) Standards

**I. PROJECT MANAGEMENT AND COORDINATION**

The Engineer and Contract Manager (hereinafter referred to as Contract Manager) will be responsible for directing and coordinating all activities associated with the Williamson Co. Bridge Replacements for CR 424 and revision to CR 434 project. (hereinafter referred to as Project). The fee for this task is associated with the same task outlined in the original scope with reference to CR 424 and the additional work for CR 434.

**II. PREPARATION OF PLANS, SPECIFICATIONS & ESTIMATE****A. Plan sheets for County Road 434**

The Engineer shall prepare a set of sheets that will be used for one complete bid package. It is understood that no more than two bid packages will be prepared for this scope of work. The fee estimate includes the two sets of sheets. The engineer will prepare the following sheets:

- (1) Prepare a combined Title sheet. The Title sheet will identify the location of the county road sites in the project, the index of sheets in the plan set, project type, road names and appropriate signature blocks. This Title sheet shall serve as the basis for a subsequent set of plans.
- (2) Prepare general notes and specifications sheet. The TxDOT 1993 Standard Specifications for Construction of Highways, Streets and Bridges shall be the primary specification.
- (3) Prepare summary of quantities sheet that will include quantities compiled from all county road locations represented in the plan set.
- (4) Locate and plot all appropriate TxDOT standards for project use.
- (5) Prepare estimate of construction cost based on TxDOT average Bid prices for the Austin District supplemented by TxDOT State wide averages and Williamson County average bid prices.
- (6) Prepare Bid package.

**B. County Road 434**

The Engineer's original scope will be modified to include plans prepared for TxDOT review and approval for CR 434 based on the sample set of plans provided by the Georgetown Area office of TxDOT. The plans will include an SW3P, Traffic control plan/ Detour plan and Scour analysis sheet. The scope will also include preparing the sheets described in the original scope to TxDOT Plan preparation standard for TxDOT review and approval.

(7)

**C. County Road 424**

The Engineer will prepare the following plan sheets based on the previous set submitted to the County for CR 406, CR 427 and CR 390:

2-1A-01

- (1) Prepare typical section sheet that will include an existing typical section and a proposed typical section. The proposed typical section shall be a 2- twelve foot lanes with 4 foot shoulders, therefore a 32'-0" proposed roadway width will be used.
- (2) Prepare a combined plan & profile and culvert layout sheet. The sheet will include culvert layout information, existing and proposed roadway profile. The Plan view will include the horizontal alignment, fence and ROW lines and transition data from the existing roadway width to a 32' roadway width. The Design speed shall be that which meets or exceeds the existing conditions of the county road unless otherwise designated by the contract manager at the Kickoff meeting. Prepare a Detour Plan sheet to route traffic around the proposed construction site. If a bridge is to be used at this site, a separate sheet will be prepared for a bridge layout (see item (6)).
- (3) Prepare Bridge Layout according to TxDOT standards for preparing bridge layouts. TxDOT Bridge standards will be used for the bridge design details.
- (4) Prepare bridge foundation design based on geotechnical data provided by the County.
- (5) Prepare cost comparison for the required box culvert vs. a bridge to determine the appropriate structure for this location.
- (6) Drainage Area Map Sheet.
- (7) Hydraulic Computation Sheet. This sheet may be combined with the Drainage Area Map if there is sufficient space on the Drainage Area Map sheet exist for the hydraulic computation data. The hydraulic design process will be to perform an analysis to obtain existing conditions and the design criteria will be to meet the existing conditions except where jurisdictional areas require alternate design criteria. The scope assumes that the design criteria will be to meet the existing conditions. Any change will require prior approval of the contract manager and a supplemental agreement.

### **III. FIELD & HYDRAULIC SURVEYING, ROW DETERMINATION and ROW and EASEMENT SURVEYING**

#### **A. Field and ROW Survey for CR 424**

The Engineer's subconsultant will provide field surveying and ROW determination based on information provided by the county for the above mentioned county road bridge sites. The limits of the survey will be from ROW line to ROW line. The survey shall extend for a distance of 300 foot either side of the bridge ends. The ROW lines shall be included in the field survey.

#### **B. Hydraulic Survey for CR 424**



2-16-01

The Engineer's subconsultant will provide hydraulic surveying for the above mentioned county road bridge sites. The Engineer's subconsultant will provide five hydraulic cross- sections located along the channel at the following distance:

- (1) One cross-section located 2 to 3 bridge lengths upstream of the bridge face.
- (2) One cross-section located at the upstream face of the bridge.
- (3) One cross-section located at the downstream face of the bridge.
- (4) One cross-section located 2 to 3 bridge lengths downstream of the bridge face
- (5) One cross-section located 5 to 6 bridge lengths downstream of the bridge face.

**C. Additional Hydraulic Survey for CR 424**

The Engineer's subconsultant will provide topographic survey of the Channel cross-sections and profile for the drainage ditch at CR 424 site. The topo will extend from top of bank to top of bank and include the change in depth of the existing channel.

**D. Property Boundary Survey for ROW and Easement Acquisition for CR 424, CR 434, CR 390, CR 427, and CR 351.**

The Engineer's subconsultant will provide property boundary survey for right-of-way acquisition to accurately tie down property boundaries with all adjoining property corners if necessary. Work includes field notes and sketch.

#### **IV. CONSTRUCTION PHASE SERVICES**

Services for the construction phase will be provided under a supplemental agreement.

Williamson County Bridges Fee Estimate

HDR Engineering, Inc.

1	Project Management and Coordination	16	80	8	0	4	68	28	\$7,824.00
2	PS&E Bld Package Number 3 Development	4	18	44	0	16	32	0	\$4,143.00
3	County Road 424	0	27	44	32	80	100	2	\$8,851.50
4	County Road 434 additional	0	58	16	32	36	80	0	\$7,437.00
	Totals	20	191	112	84	136	280	28	\$28,255.50
	Postage (regular mail)	0.5 lot				\$100.00			\$50.00
	Copies Prints (8.5X11)	700.0 Each				\$0.06			\$42.00
	Copies/ Prints (11X17)	400.0 Each				\$0.15			\$60.00
	Plots	100.0 Sq Ft				\$1.50			\$150.00
	MYLAR(11x17) is full size	60.0 Each				\$2.25			\$135.00
	Postage (expres mail)	5.0 Each				\$15.00			\$75.00
	Telephone	0.7 Lot				\$150.00			\$105.00
	Car Mileage/ Rental Car	500.0 Mls				\$0.35			\$172.50
	Bridge Inspection Equipment Rental	0.0 Lot				\$500.00			\$0.00
	Computers (Engineering)	175.0 Hrs.				\$10.00			\$1,750.00
	Computers	374.0 Hrs.				\$15.00			\$5,610.00
	Direct Expense Total								\$6,148.50
									\$28,256
									\$45,936
									\$74,192
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**Williamson County Bridges**

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Williamson County Bridges

05/21/2002

2.A.1	Prepare Combined Title Sheet		2		8				\$281.00
2.A.2	Prepare Gen. Notes & Specifications Sheet		4	8	8	4			\$806.00
2.A.3	Prepare Summary of Quantities Sheet		2	8		16			\$885.00
2.A.4	Identify TxDOT Standard Sheets			4		4			\$275.00
2.A.5	Prepare Estimate of Construction Cost		2	8					\$405.00
2.A.6	Prepare Bid Package	4	8	16		8			\$1,486.00
	Plan Sheets for Multiple County	4	18	44	16	32	8		\$4,143.00
Road Locations									
	Postage ( regular mail)	0.25	lot			100			\$25.00
	Copies/ Prints (8.5X11)	100	Each			0.06			\$6.00
	Copies/ Prints (11X17)	100	Each			0.15			\$15.00
	Plots	0	Sq Ft			1.5			\$0.00
	MYLAR(11x17) is full size	60	Each			2.25			\$135.00
	Postage ( express mail)	2	Each			15			\$30.00
	Telephone	0.2	lot			150			\$30.00
	Car Mileage/ Rental Car	0	Mile			0.345			\$0.00
	Bridge Inspection Equipment Rental	0	lot			500			\$0.00
	Computers (Engineering)	31	Hrs.			10			\$310.00
	Computers	43	Hrs.			15			\$845.00
	Direct Expense Total								\$1,196.00

Total Direct Labor	
Overhead	162.57%
Subtotal	
Total 15% Profit	
Total Direct Expenses	
HDR Total	
	\$4,143.00
	\$6,735.28
	\$10,876.28
	\$1,831.74
	\$1,196.00
	\$13,706.02

Williamson County Bridges

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Task	Quantity	Unit	Rate	Amount	Task	Quantity	Unit	Rate	Amount
2.F.1	1	Sheet	741.00	741.00	2.F.1	1	Sheet	741.00	741.00
2.F.2	1	Sheet	1,076.00	1,076.00	2.F.2	1	Sheet	1,076.00	1,076.00
2.F.3	1	Sheet	1,494.00	1,494.00	2.F.3	1	Sheet	1,494.00	1,494.00
2.F.4	1	Sheet	1,692.00	1,692.00	2.F.4	1	Sheet	1,692.00	1,692.00
2.F.5	1	Sheet	748.00	748.00	2.F.5	1	Sheet	748.00	748.00
2.F.6	1	Sheet	836.00	836.00	2.F.6	1	Sheet	836.00	836.00
2.F.7	1	Sheet	850.00	850.00	2.F.7	1	Sheet	850.00	850.00
			\$0.00	\$0.00				\$0.00	\$0.00
			\$7,437.00	\$7,437.00				\$7,437.00	\$7,437.00
County Road 434 additional					County Road 434 additional				
Postage (regular mail)	0	lot	\$0.00	\$0.00	Postage (regular mail)	0	lot	\$0.00	\$0.00
Copies/Prints (8.5X11)	100	Each	\$8.00	\$8.00	Copies/Prints (8.5X11)	100	Each	\$8.00	\$8.00
Copies/Prints (11X17)	100	Each	\$15.00	\$15.00	Copies/Prints (11X17)	100	Each	\$15.00	\$15.00
Plots	50	Sq Ft	\$75.00	\$3,750.00	Plots	50	Sq Ft	\$75.00	\$3,750.00
MYLAR(11x17) 1/8" size	0	Each	\$0.00	\$0.00	MYLAR(11x17) 1/8" size	0	Each	\$0.00	\$0.00
Postage (express mail)	0	Each	\$0.00	\$0.00	Postage (express mail)	0	Each	\$0.00	\$0.00
Telephone	0	lot	\$0.00	\$0.00	Telephone	0	lot	\$0.00	\$0.00
Car Mileage/ Rental Car	200	Mile	\$69.00	\$13,800.00	Car Mileage/ Rental Car	200	Mile	\$69.00	\$13,800.00
Bridge Inspection Equipment Rental	0	lot	\$0.00	\$0.00	Bridge Inspection Equipment Rental	0	lot	\$0.00	\$0.00
Computers (Engineering)	44	Hrs.	\$440.00	\$19,360.00	Computers (Engineering)	44	Hrs.	\$440.00	\$19,360.00
Computers	104	Hrs.	\$1,560.00	\$162,240.00	Computers	104	Hrs.	\$1,560.00	\$162,240.00
Direct Expense Total			\$2,165.00	\$2,165.00	Direct Expense Total			\$2,165.00	\$2,165.00

Total Direct Labor		\$7,437.00
Overhead	162.57%	\$12,090.33
Subtotal		\$19,527.33
Total 15% Profit		\$2,929.10
Total Direct Expenses		\$2,185.00
HDR Total		\$24,621.43



**HAYNIE CONSULTING, INC.**  
**CIVIL ENGINEERS AND LAND SURVEYORS**

Mr. George Tillett  
HDR Engineering  
2211 South IH 35, Suite 300  
Austin, Texas 78741

April 29, 2002

Fax: 912-5158

**RE: Bridge Projects**  
**Right-of-Way Acquisition for bridges on**  
**CR 406, CR 390, CR 427, CR 351, CR 434**  
**Bridge Design Survey for CR 424 at Turkey Cove**

Dear George,

Per your request, we have put together budgets for right-of-way acquisition for the 5 bridge project and the additional work for CR 424.

1. Scope: Property boundary survey for right-of-way acquisition - (our initial survey located property corners within the limits of the design survey area) to accurately tie down property boundaries, all adjoining property corners need to be tied. Work includes preparation of field notes and sketch.

**Phase I**

CR 390 -	\$2,500 (typical break down \$1,500 field, \$1,000 office)
CR 427 -	<u>\$2,500</u>
Phase I Total	\$5,000

**Phase II**

CR 434 -	\$2,500
CR 351 -	<u>\$2,500</u>
Phase II Total	\$5,000

2. Design surveys and property ties for possible right-of-way acquisition.

**Phase III**

CR 424 -	<u>\$8,500</u>
Phase III Total	\$8,500

Total Budget	\$18,500
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The work will be performed on an hourly basis with the above budgets as a maximum.

Should you have any questions or need additional information, please feel free to call me at 512-837-2446, extension 208.

Sincerely,

A handwritten signature in black ink, appearing to read "Tim Haynie". The signature is stylized with a large, looped initial "T" and a cursive "Haynie".

Timothy E. Haynie, P.E., R.P.L.S.  
Professional Engineer (Civil) License No. 36982  
Haynie Consulting, Inc.

file: C:\ecr-2002\Letters\gt-bridge.doc



**AGENDA ITEM 23**

Consider the addition of tasks to Smith, Robertson, Elliott & Glen, L.L.P. engagements for environmental consulting services.

Alan Glen addressed the court concerning the request for additional services for the Wyoming Springs project.

**Moved: Commissioner Boatright**

**Seconded: Commissioner Hays**

**Motion:** To approve an additional \$15,000 for environmental consulting to determine a methodology for environmental compliance on the Wyoming Springs project.

< Attachment >