



## Travis County Commissioners Court Agenda Request

**Meeting Date:** December 16, 2014

**Prepared By/Phone Number:** Jason G. Walker/44562; Marvin Brice, CPPB, Assistant Purchasing Agent

**Elected/Appointed Official/Dept. Head:** Cyd Grimes

**Commissioners Court Sponsor:** Judge Biscoe

**Agenda Language: Approve Modification No. 1 to Contract No. 440002145, Wiss, Janney, Elstner Associates, Inc, for Jakes Hill Bridge Failure.**

- **Purchasing Recommendation and Comments:** Purchasing concurs with department and recommends approval of requested action. This procurement action meets the compliance requirements as outlined by the statutes.
- 
- Jakes Hill Road bridge is a single-span structure that carries two (2) traffic lanes of Jakes Hill Road over the Walbarger Creek Tributary, near Pflugerville. Currently, there are seven (7) precast, rigid-frame crown span sections on spread footings, where each identical section spans approximately twenty-two (22) feet. This bridge was built by a private developer in 2009, and then turned over to the County for maintenance.
- In late May 2014, the bridge suffered a partial collapse and the County closed the roadway. In order to determine the cause of the failure and identify a remediation plan, a forensic investigation of the bridge structure is necessary. Wiss, Janney, Elstner Associates, Inc. has an exceptional national reputation for their forensic engineering services, as they have performed many failure and disaster analyses on bridge structures having failed due to extreme weather events, fatigue, accidents, etc.
- This modification number one (1) is for Additional Basic Services for geotechnical investigations and review of hydrological conditions of the site. This modification will increase the contract amount by \$21,300.00,

AGENDA REQUEST DEADLINE: All agenda requests and supporting materials must be submitted as a pdf to [agenda@co.travis.tx.us](mailto:agenda@co.travis.tx.us) by Tuesdays at 5:00 p.m. for the next week's meeting.

from \$30,000.00 to \$51,300.00, and the aggregate modification amount results in a 71% increase of the original contract amount.

➤ **Contract Expenditures:** Within the last 3 months \$0.00 has been spent against this contract/requirement.

➤ **Contract-Related Information:**

Award Amount: \$30,000.00

Contract Type: A/E

Contract Period: Through completion

➤ **Contract Modification Information:**

Modification Amount: \$21,300.70

Modification Type: A/E

Modification Period:

➤ **Solicitation-Related Information: N/A**

Solicitations Sent:

Responses Received:

HUB Information:

% HUB Subcontractor:

➤ **Special Contract Considerations: N/A**

Award has been protested; interested parties have been notified.

Award is not to the lowest bidder; interested parties have been notified.

Comments:

➤ **Funding Information:**

Shopping Cart(s)/Funds Reservation in SAP: 300001557

Fund Center(s): 1490200145

Comments:

**TRANSPORTATION AND NATURAL RESOURCES**

STEVEN M. MANILLA, P.E., COUNTY EXECUTIVE



700 Lavaca Street-5<sup>th</sup> Floor  
Travis County Administration Building  
PO Box 1748  
Austin, Texas 78767  
Phone: (512) 854-9383  
Fax: (512) 854-4697

November 10, 2014

**MEMORANDUM**

**TO:** Marvin Brice, Assistant Purchasing Agent

**FROM:** Morgan Cotten, Public Works Director

**THROUGH:** Steve Manilla, County Executive – TNR

**SUBJECT:** Contract 4400002145-Wiss, Janney, Elstner Associates, Inc.  
Modification No. 1-Jakes Hill Road Bridge Failure

TNR is requesting approval of Modification No. 1 for the above referenced subject project. This modification will increase the contract total amount by \$21,300.00 from \$30,000 to \$51,300.00. This change order is for additional soils exploration and hydraulic analysis needed for the replacement foundation and reconstruction of the bridge.

TNR staff recommends approval for the change order. Wiss, Janney, Elstner Associates, Inc. contract modification is attached for your reference. Funds for this request are reserved under the following financial document:

Funds Reservation Document No.	300001557
Fund	0145
Fund Center	1490200145
G/L Account	51190
Amount	\$21,300.00

For questions regarding this modification, please contact Morgan Cotten at extension 49434, for financial inquiries; contact Isabelle Lopez at extension 47675.

MC:SMM:il

xc: Morgan Cotton, TNR Public Works  
Isabelle Lopez, Tawana Gardner, TNR Financial Services

# Funds Reservation 300001557

General Data			
Document type	NE	Document type	030
Company code	1000	Document date	11/10/2014
FM area	1000	Posting date	11/10/2014
Controlling area	1000	Currency	USD/ 1.00000
Statistics			
Entered by	LOPEZI	Created on	11/10/2014
Last changed by		Last changed	
More Data			
Text	Jake's Hill Road Bridge Failure-Mod.#1		
Reference			
Overall Amount	21,300.00 USD		

Document item 001			
Text	Jake's Hill Rd Bridge Failure-Mod#1-Wiss,Janney,		
Commitment item	511900	Funds center	1490200145
Fund	0145	G/L account	511900
Cost center	1490200145	Due on	
Vendor		Customer	
Amount	21,300.00 USD		

**MODIFICATION OF CONTRACT NUMBER: 4400002145, Jake's Hill Bridge Failure PAGE 1 OF 2 PAGES**

ISSUED BY: PURCHASING OFFICE P.O. BOX 1748 AUSTIN, TX 78767	PURCHASING AGENT ASST: <b>Jason G. Walker</b> TEL. NO: (512) 854-9700 FAX NO: (512) 854-9185	DATE PREPARED: <b>November 24, 2014</b>
ISSUED TO: <b>Wiss, Janney, Elstner Associates, Inc.</b> <b>9511 North Lake Creek Parkway</b> <b>Austin, TX 78717</b>	MODIFICATION NO.: <b>1</b>	EXECUTED DATE OF ORIGINAL CONTRACT: <b>September 3, 2014</b>

ORIGINAL CONTRACT TERM DATES: 9/3/14 - through project completion CURRENT CONTRACT TERM DATES: 9/3/14 - through project completion

**FOR TRAVIS COUNTY INTERNAL USE ONLY:**

Original Contract Amount: \$30,000.00 Current Modified Amount \$30,000.00.

**DESCRIPTION OF CHANGES:**

A. The additional Basic Services, Work Product (Task) 5 - Geotechnical Investigation and Work Product (Task) 6 - Hydrological Condition Review, as outlined in Consultant's Supplemental Agreement, attached hereto and made a part hereof are hereby added to the contract. As a result of these additional Basic Services, Work Product (Task) 5 - Geotechnical Investigation and Work Product (Task) 6 - Hydrological Condition Review, contract Basic Services pricing is adjusted as follows:

1. Reference EXHIBIT 1, SECTION 1 - COMPENSATION FOR BASIC SERVICES:

- a. Paragraph 1.1: The stated fee for the performance of basic services is modified from \$28,640.00 to \$49,940.00, an increase of \$21,300.00.
- b. Paragraph 1.1.1: Work Product (Task) 5 - Geotechnical Investigation is added in the amount of \$8,800.00.
- c. Paragraph 1.1.1: Work Product (Task) 6 - Hydrological Condition Review is added in the amount of \$12,500.00.
- d. The BASIC SERVICES TOTAL is changed from \$28,640.00 to \$49,940.00, an increase of \$21,300.00.

B. Reference EXHIBIT 1, SECTION 5 - TOTAL AGREEMENT SUM. The TOTAL AGREEMENT SUM is changed from an NTE amount of \$30,000.00 (\$28,640.00 Basic Services and NTE amount of \$1,360.00 Reimbursable Expenses) to an NTE amount of \$51,300.00 (\$49,940.00 Basic Services, and NTE amount of \$1,360.00 Reimbursable Expenses) an increase of \$21,300.00.

C. The Contract Scope of Services is modified to include the performance by Engineer of the additional Basic Services as outlined in Consultant's Supplemental Agreement (Attachment A).

Except as provided herein, all terms, conditions, and provisions of the document referenced above as heretofore modified, remain unchanged and in full force and effect.

**Note to Vendor:**

- Complete and execute (sign) your portion of the signature block section below for all copies and return all signed copies to Travis County.
- DO NOT execute and return to Travis County. Retain for your records.

LEGAL BUSINESS NAME: <u>Wiss, Janney, Elstner Associates, Inc.</u>	<input type="checkbox"/> DBA
BY: <u>[Signature]</u> SIGNATURE	<input checked="" type="checkbox"/> CORPORATION
BY: <u>Aaron Sterns</u> PRINT NAME	<input type="checkbox"/> OTHER
TITLE: <u>Senior Associate</u> ITS DULY AUTHORIZED AGENT	DATE: November 25, 2014
TRAVIS COUNTY, TEXAS	DATE:
BY: <u>[Signature]</u> CYD J. GRIMES, C.P.M., CPPO, TRAVIS COUNTY PURCHASING AGENT	
TRAVIS COUNTY, TEXAS	DATE:
BY: <u>[Signature]</u> SAMUEL T. BISCOE, TRAVIS COUNTY JUDGE	

**DRAFT**

Attachment A

Additional Basic Services

***Task 5 - Geotechnical Investigation***

During the design of the original structure, the geotechnical engineer for the developer obtained borings to a depth of 10 feet below grade. During construction, the geotechnical engineer observed wet, weak soils in the channel bed and recommended replacing the existing soils with engineered fill and a filter fabric liner. As stated in our draft Investigation Report, dated October 22, 2014, WJE observed no evidence of such subgrade improvements. Based on our work experience and discussions with the Texas Department of Transportation (TxDOT), we have found that the use of spread footings to support three-sided bridge/culvert structures places the structure at an undue risk of collapse due to footing scour; therefore, we recommended the use of drilled shaft foundations to mitigate the risk of future scour. As such, WJE will coordinate for soil testing by obtaining borings up to a depth of 70 feet below grade along each bank of the channel to provide necessary soil properties for deep-foundation design.

***Task 6 - Hydrological Condition Review***

During our site investigation, WJE observed that concentration of the outflow from an upstream storm water detention area, combined with the absence of scour mitigation and channel protection measures, likely contributed to the scour and undermining of the original structure. At this time, we have not observed any documentation for a scour analysis to guide the use of such scour mitigation and channel protection measures. We understand that Travis County wishes to consider the use of a discrete-block-on-grade system to protect the inlet and outlet of the rehabilitated channel. As such, WJE will arrange for a subconsultant to review the current hydrological condition of the site in order to recommend and design the protective measures necessary to prevent recurrence of scour and undermining of the new culvert.