

REQUEST AUTHORIZATION FOR MAYOR AND FINANCE OFFICER TO SIGN PROFESSIONAL SERVICES AGREEMENT OR AMENDMENT

Date: November 1, 2011

Project Name & Number: East Anamosa Street Extension Lacrosse to Century
Project No. ST04-1397

CIP #: 50316

Project Description: Professional Engineering and Construction Administration Services for the Reconstruction/Extension of East Anamosa Street from Lacrosse to Century.

Consultant: Kadmas, Lee & Jackson, Inc.

Original Contract Amount: \$667,557.13	Original Contract Date: July 25, 2005	Original Completion Date: Upon Completion of Final Project Documentation
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Addendum No: 002


Amendment Description: This amendment increases the scope of services for additional work required for a Noise Impact Analysis, Traffic Operations Analysis, Paving Alternate, Right of Way Acquisition assistance and Construction Engineering Services.

Current Contract Amount: \$667,557.13	Current Completion Date: Final Proj Documentation
Change Requested: \$229,139.86	
New Contract Amount: \$896,696.99	New Completion Date: Final Proj Documentation


Funding Source This Request:

Amount	Dept.	Line Item	Fund	Comments
\$139,919.67	8910	4223	505	
\$75,837.17	934	4223	602	
\$13,383.02	834	4223	604	
\$229,139.86	Total			

Agreement Review & Approvals

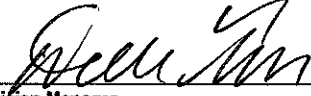


 Project Manager
 Date: 10-26-11



 Compliance Specialist
 Date: 10/26/11

 City Attorney
 Date



 Division Manager
 Date: 10-26-11

 Department Director
 Date

ROUTING INSTRUCTIONS

Route two originals of the Agreement for review and signatures.
 Finance Office - Retain one original
 Project Manager - Retain second original for delivery to Consultant
 cc: Public Works
 Engineering
 Project Manager

FINANCE OFFICE USE ONLY

(Note to Finance: Please write date of Agreement in appropriate space in the Agreement document)

Date	Initials	Approved
		Y N
		Y N

AMENDMENT NO. 2 TO AGREEMENT

Project: East Anamosa – LaCrosse to Century
Project No. ST04-1397 / CIP No. 50316

Background Data: Original Contract Date: July 18, 2005
Owner: City of Rapid City
Consultant: Kadrmas, Lee & Jackson, Inc.

Nature of Amendment: Additional Design, Environmental, and Right of Way services and additional Construction Administration services due to lengthened construction schedule. Exhibit A shows the amendments to the Scope of Services and Exhibit B shows the associated fees.

Current Contract Amount: \$ 667,557.13

Change Requested: \$ 229,139.99

New Contract Amount: \$ 896,696.99

Owner and Consultant hereby agree to modify the above referenced Agreement as set forth in this Amendment. All provisions of the Agreement not modified by this or previous Amendments remain in effect. The effective date of this Amendment is: November 7, 2011.

CITY OF RAPID CITY:

By: _____
Mayor

Date: _____

ENGINEER:

By:  _____
Kadrmas, Lee & Jackson, Inc.

Date: 10-27-11

ATTEST:

By: _____
Finance Officer

Date: _____

REVIEWED BY:

Dale Tech, City Engineer

EXHIBIT A

SCOPE OF THIS AMENDMENT

1. Modifications to the Preliminary and Design Services Phase.
 - a. Noise Impact Analysis - SDDOT and FHWA required a detailed Noise Impact Study be completed prior to the formal review of the environmental assessment. The Noise Impact Analysis was conducted in accordance with SDDOT and FHWA Noise Analysis and Abatement Guidelines/Policy
 - b. Traffic Operations Analysis - The original scope for this activity indicated that the city was to provide Kadrmass, Lee & Jackson with all traffic counts, including future projections. However, during the process of completing this activity, the development of the Rushmore Crossing and its impacts on the roadway network of this area became known and Kadrmass, Lee & Jackson was requested to provide these future projections and evaluate additional scenarios due to the developing environment.
 - c. Three Lane Design - During the design process it was determined the project construction costs were outpacing the budget and it was decided the roadway should be built for three lanes, and graded to accommodate future widening to five lanes. This required completing the design of both the three and five lane roadway geometrics and cross sections to ensure the graded footprint was adequate for future expansion. The transitions into the three lane section were also included in this work. The bridge design required the addition of a raised median and approach transitions for three lanes. The storm sewer layout required additional design effort to accommodate provisions for future roadway widening. This task was formally requested in an October 17, 2007 email from Robert Ellis to Rod Senn and after the five lane concept had been in development.
 - d. Asphalt Concrete Alternate - During the design process it was decided to bid asphalt concrete as an alternate paving material to portland cement concrete. This task was formally requested in a January 11, 2008 email from Robert Ellis to Rod Senn. Subsequently on July 17, 2008 we were instructed per a telephone call to suspend these efforts and an asphalt alternative would not be included in the final plans. While the design for such an alternative was not complete at this time, efforts were expended to negotiate with the SDDOT on bidding such an alternative as they were opposed to the alternative bid, coordination with the local asphalt and concrete associations to ensure a fair bidding process, preliminary design efforts to address impacts to alternate typical sections, alternate bridge approach slabs, lighting analysis, quantities, specifications, and cost estimates.

- e. **Watermain System Design** - The original contract was established under the concept of the East Anamosa Street Extension Study of February 2000 which provided for expanding/ replacing the high and low level watermains in this area with a 12 inch (high) and 16 inch (low) line. City specifications would have allowed such lines to be installed with PVC pipe. However, during the course of designing this project, the city had undertaken its citywide water system master plan and the sizes of lines were increased to 16 inch high level line and a 20 inch low level. City specifications required that the 20 inch line be constructed of ductile iron pipe which required design changes due to the parameters and criteria of the pipe material. Subsequently as the city's water master plan continued to evolve and the city encountered issues with the ductile iron manufacturers' corrosion certification, a second request was made to construct the low level line with steel pipe which required design changes due to the parameters and criteria of the pipe material. Associated with the changes from PVC to steel pipe, a detailed cathodic protection plan and steel pipe construction specifications currently not included in the city standards will need to be developed which were not included in the original agreement.
- f. **Survey** - The original survey was completed in 2004 and since the time of the initial survey the site conditions have changed due to construction on adjacent properties. Additional topographic survey was needed to ensure accurate cost estimates and quantities.
- g. **Right of Way Acquisition** - The original contract provided for Kadrmass, Lee & Jackson to assist in right of way acquisition by providing technical assistance at the landowner meetings to discuss aspects of the design and there corresponding impacts on the landowners. However, Kadrmass, Lee & Jackson was requested to make initial contacts, schedule individual meetings lead the initial meeting and provide the documentation of the meetings for all of the landowners and the same in subsequent meetings with a few of the landowners.
- h. **Plan Modifications after Final Delivery** – Final plans were delivered to the City and SDDOT in January 2011; however the project was not let for bids until May 2011 due to land acquisition. Changes to the plans were required due to right-of-way modifications and plan updates to current SDDOT standards and notes which changed after the final plan delivery.

2. Modifications to the Construction Engineering Services Phase.
 - a. The original construction fee established in Amendment No. 1 was based on a 26 week project with the assumption that the project would begin in the spring and end that same fall. The actual timeline for the project had a bid letting in May 2011, actual construction beginning in June 2011 and an overall completion date of June 1, 2012. The contractor's actual construction schedule includes 36 weeks of construction - mid-June thru November 2011 and March, April and May of 2012. The contractor has indicated construction activities occur during the months between November 2011 and March 2012 on the structure and watermains depending on weather and the subcontractor.

3. Modifications to the Construction Engineering Testing Services Phase.
 - a. Services to be modified to meet the current final plans and the criteria of SDDOT.
 - b. As noted above, the City requested a change to steel watermain which requires additional materials acceptance services which were not included in the previous agreements.

EXHIBIT B

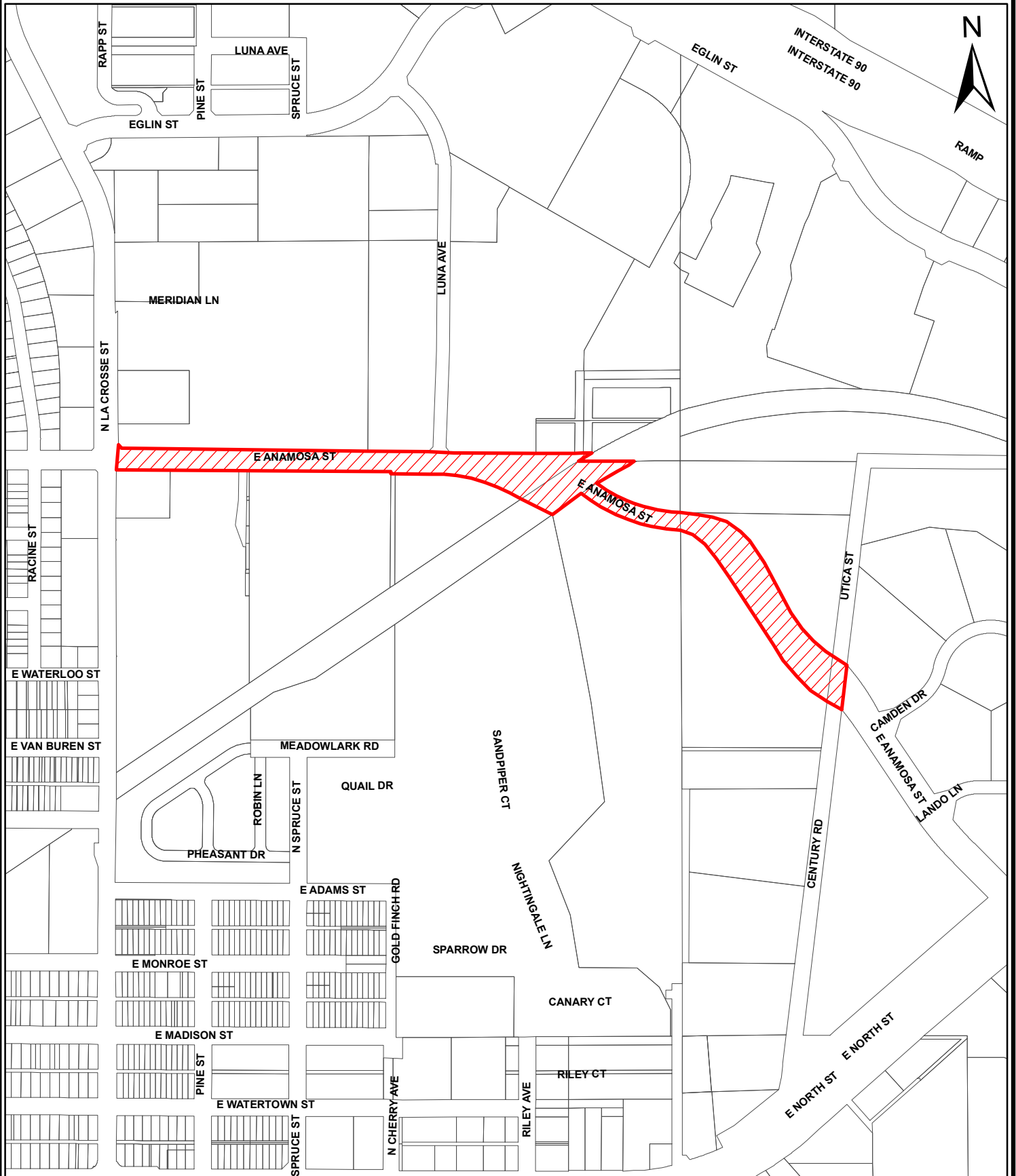
PAYMENT TO THE ENGINEER

Amendment No. 2 shall be for an additional amount not to exceed a total of \$229,139.96 and increase the total contract amount not to exceed to \$896,696.99. Billings will be made on an hourly basis as services are provided to the City or at the actual amount invoiced by approved subconsultants. Additional services will not be provided or billed to the City unless a written request is received from the City for such additional services.

Adjustments to contract amounts:

Amendment No. 2

Design Phase Adjustment	\$ 82,117.84
Construction Engineering Adjustment	\$ 84,222.02
Construction Engineering Testing	<u>\$ 62,800.00</u>
Total Amended Contract	\$229,139.96



**EAST ANAMOSA EXTENSION-CENTURY RD TO LACROSSE ST
PROJECT NO. ST04-1397 CIP NO. 50316**