REQUEST AUTHORIZATION FOR MAYOR AND FINANCE NOT FINE PROPERTY OF THE PROPERTY PROFESSIONAL SERVICES AGREEMENT OR AMENDMENT

Project Name & Number:

West Chicago Street Reconstruction, 44th To Wedgewood Drive

Project Description:

New PCC intersection pavement, c&g, walk, signals, water mains, sewer mains, storm sewer in

intersection, new ACC pavement to Wedgewood, water mains, sewer mains, storm sewer, irrigation

& sodding.

Consultant:

CETEC

Original Contract Amount:

\$135,926.00

Original Completion Date:

On hold

Amendment Number:

Second amendment to do design revisions to improve traffic safety and flow by incorporating

property acquisitions and realigning West Chicago

Amendment Description:

Prepare final plans and specifications for revised intersection layout to improve overall traffic flow and safety. Includes property acquisition, allowing four legged intersection and second west bound lane. Also includes design of traffic signal lights, street lighting, water and sewer

mains and services, storm sewer, and pedestrian crossings and sidewalks.

Current Contract Amount:

\$153,046.00

Current Completion Date: on hold

Change Requested:

\$74,949.32

New Contract Amount:

\$227,995.32

New Completion Date: Fall 2004

Funding Source This Request:

Amount	Dept.	Line Item	Comments
\$31,000.00	8910	4223	street, intersection, curb and gutter, lighting, sidewalk design
\$22,000.00	8911	4223	drainage inlets and pipe design
\$11,000.00	933	4223	water mains and services design
\$10,949.52	833	4223	sewer mains and services design
\$74,949.52	Total		

Agreement Review & Approvals

Joe Jagodzinsk Project Mana

Department Director

Division Nanau

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

Public Works Engineering

Project Manager

FINANCE OFFICE USE ONLY

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

1. 1 Appropriation

Cash Flow 10

Approved |



cetec@rushmore.com

February 12, 2004

City of Rapid City, Engineering Division Attn: Joe Jagodzinski, P.E. 300 6th Street Rapid City, SD 57701

Re:

West Chicago Street Reconstruction

Project No. ST02-1071

Dear Joe:

Attached is our fee estimate for amending the referenced project contract to finish design of the West Chicago/44th Street intersection per Alternative #2 (copy of Figure 26 attached) from "Amendment #1 Additional Intersection Study Report" dated November 20, 2002. This alternative replaces the current five legged intersection with a four legged intersection at 44th Street/West Chicago Street/South Canyon Road and moves the West Chicago/South Canyon Road intersection to the west directly across from Stanley Court. As we discussed, the preliminary plan as shown on Alternative #2—Figure 26 along with a preliminary cost estimate are the only tasks that have been accomplished to date for this alternative. Therefore, additional preliminary design, as well as final design, is required for the street as well as water and sewer utilities. In addition to Alternative #2, Stanley Court street and water and sewer utility reconstruction is to be added to the project. Stanley Court street pavement is significantly broken and in need of replacement. Stanley Court water and sewer utilities will be evaluated to determine replacement needs.

As we discussed, we have proceeded with the survey on Stanley Court. However, we have not yet surveyed the underground utilities. We have not started the Stanley Court design since it will be dependent on the design of South Canyon Road.

With this proposed amendment the following items are excluded from the project at this time and a future amendment to the contract will be required to finish their design: 1. West Chicago roadway, major drainage and utilities from Seeaire Drive west to Wedgewood Drive. 2. 44th Street storm sewer outfall to the South Canyon Drainage at West Main Street. 3. Street lighting on West Chicago from 44th Street to Sturgis Road—as we discussed this will most likely be done as a separate project and the City will contract directly with the electrical engineer for design.

We anticipate finishing final design on this segment of the project in approximately 3 ½ months after notice to proceed.

Please give me a call if you have questions. We can provide Amendment #2 to the contract at your request.

Thank you,

CETEC Engineering Services, Inc.

Many A Saity

Randy R. Sauter, P.E.

attachments

Project:

West Chicago Street Reconstruction, 44th Street to Wedgewood City of Rapid City Project No. ST02-1071

Prepared By: CETEC Engineering Services, Inc.
Date: February 12, 2004

TASK NUMBER and PHASE DESCRIPTION	Project Manager	Project Roadway Engineer	Project Utilities Engineer		Project Technician	Clerical	Survey Chief	Survey Assistant	Consultants
	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Fee
Preliminary Design for Alternative 2 from Amend	dment #1 report d	ated Nov. 20, 2	002 and Add Sta	inley Court					
				 				20	_
Survey	2	ļ <u>.</u>			<u> </u>		32	20	ļ
Roadway horiz. & vert. Alignments		8			8				
Roadway		40			32				Car Final Da
Major Intersection & traffic signals—Benshoof	2				4				See Final De
Street lighting-West Plains Engineering	2				4			ļ	See Final De
Local storm sewer		16			16				
Water & sewer study									
Gather w & s info			6		2	2			<u> </u>
S. Canyon sewer basin evaluation			8		8	2			
Sewer sizing & alignment evaluation			6		4				
Sewer video inspection & coordination			4		2				
W & s record research			4		4				
W & s vertical & horizontal alignments			4		4				
Water system hydraulic model			6		2				
Irrigation recommendations			4		2				
W & s summary report	2		8		4	8			
Water & sewer preliminary design									
W & s base plan prep			4		4				
W & s plan & profiles			16	}	16				
W & s detail drawings			6 ,	1	6				
Utilities coordination		4	3						
Sequence of construction		4	4			2			
Assist City w/ easements, legal survey, plats	2						16		·
Preliminary design submittal		4	4		4				
Preliminary opinion of probable const. Cost		6	4		4				
Meetings (2)		4	4						Z
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						<u> </u>			•
Preliminary Design Hours	10	86	. 95	, 0	130	14	48	20	D
Hourly Rates	85.00	85.00	85.00		50.00	30.00	60.00	35.00	\$060
Preliminary Design Fee	\$850.00	\$7,310.00	\$8,075.00	\$0.00	\$6,500.00	\$420.00	\$2,880.00	\$700.00	7
									27
Preliminary Design Fee Summation for Alternat	ive 2 from Amend	ment #1 report	dated Nov. 20,	2002 and Add	Stanley Court				\$26,763.0
					-				6
			1						7

West Chicago Street Reconstruction, 44th Street to Wedgewood City of Rapid City Project No. ST02-1071 Project:

Prepared By: CETEC Engineering Services, Inc.
Date: February 12, 2004

te: February 12, 2004							r -		1 0
TASK NUMBER and PHASE DESCRIPTION	Project Manager	Project Roadway Engineer	Project Utilities Engineer		Project Technician	Clerical	Survey Chief	Survey Assistant	Consultants
									<u> </u>
Final Design for Alternative 2 from Amendment #	1 report dated N	ov. 20, 2002 and	i Add Stanley C	ourt					
Plans and specifications	-			<u> </u>					
Roadway	- 2	80			80				1
Irrigation	1		20		20				
Major intersection & traffic signals—Benshoof	1 1	 			2				\$8,710.00
Street lighting-West Plains Engineering	 			 	2				\$5,301.66
Local storm sewer	2	16			16				1 -1
W & s plan, profile, notes	·	1,0	36	<u> </u>	36				1
Project layout plan with lot lines and owners	2	4	 		8				
Detail drawings	 	4	8		20	<u> </u>			
Utility coordination		4	4						
General sequence of construction		8	4		8	2			
Cross sections		8	8		24				
Conceptual Traffic Control Plans		16	-		8				-
Detailed specifications	2	24	24			24	 		
Opinion of probable construction cost	2	6	6		1 6	41		1	
Meetings	4	8	8		4		 	<u> </u>	
incernings			<u>-</u>		1			<u> </u>	
Final Design Hours	17	178	118	0	234	26	0	0	
Hourly Rates	85.00	85.00	85.00		50.00	30.00	60.00	35.00	
Final Design Fee	\$1,445.00	\$15,130.00	\$10,030.00	\$0.00	\$11,700.00	\$780.00	\$0.00	\$0.00	\$14,011.66
					<u> </u>				455 500 00
Final Design Fee Summation for Alternative 2 fro	m Amendment #	1 report dated	Nov. 20, 2002 ai	nd Add Stanley	y Court		<u> </u>	-	\$53,096.66
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Project: West Chicago Street Reconstruction, 44th Street to Wedgewood City of Rapid City Project No. ST02-1071
Prepared By: CETEC Engineering Services, Inc.
Date: February 12, 2004

TASK NUMBER and PHASE DESCRIPTION	Project Manager	Project Roadway Engineer	Project Utilities Engineer		Project Technician	Clerical	Survey Chief	Survey Assistant	Consultants	
Bidding Phase									<u> </u>	
Benshoof & Associates						<u></u>			\$560.00	
West Plains Engineering									\$281.12	
Prebid conference		3	3		1	1				
Adenda preparation		8	4		6	7				
Consultation	4	8	6		1					
Ottomador									1	
CETEC Eng Bidding Hours	4.00	19.00	13.00	0.00	8.00	8.00	0.00	0.00		
Hourly Rates	85.00	85.00	85.00		50.00	30.00	60.00	35.00		
Bidding Fee	\$340.00	\$1,615.00	\$1,105.00	\$0.00	\$400.00	\$240.00	\$0.00	\$0.00	\$841.12	
Bidding Phase Fee Summation									\$4,541.12	
		<u>'</u>								
Construction Phase		-,							-	
Benshoof & Associates									\$2,980.00	
West Plains Engineering									\$281.12	
Preconstruction conference	4	4	4			4				
Shop drawing review		16	16 🕠			8		<u> </u>		
Constr. consultation-Field Orders & Change Orders	8	16	16			8				
Construction observation	Not included in	scope of service	s, but can be add	ded as an amer	ndment to the con	tract		_		
Construction staking	Not included in	scope of service	s, but can be add	ded as an amer	ndment to the con	tract				
Review Contractor payments	Not included in scope of services, but can be added as an amendment to the contract								<u> </u>	
As-constructed drawings and reports	Not included in	Not included in scope of services, but can be added as an amendment to the contract								
Issue statement of substantial complettion	Not included in scope of services, but can be added as an amendment to the contract									
Issue warranty letter to Contractor	Not included in	Not included in scope of services, but can be added as an amendment to the contract								
Post construction project review		Not included in scope of services, but can be added as an amendment to the contract								
CETEC Construction Hours	12	36	36	0	0	20	0	0		
Hourly Rates	85.00	85.00	85.00		50.00	30.00	60.00	35.00	00.000	
Construction Fee	\$1,020.00	\$3,060.00	\$3,060.00	\$0.00	\$0.00	\$600.00	\$0.00	\$0.00	\$3,261.12	
									644 004 40	
Construction Phase Fee Summation									\$11,001.12	

Project: West Chicago Street Reconstruction
Prepared By: CETEC Engineering Services, Inc.
Date: February 12, 2004 West Chicago Street Reconstruction, 44th Street to Wedgewood City of Rapid City Project No. ST02-1071

TASK NUMBER and PHASE DESCRIPTION Project Manager Roadway Engineer Total to Finish This Segment including Bidding and Construction Previous Billing New Maximum Limiting Fee Project Technician Project Technician Project Technician Chief Assistant Chief	Consultants
Engineer Engineer Engineer	
Total to Finish This Segment Including Bidding and Construction Previous Billing New Maximum Limiting Fee Previous Maximum Limiting Fee Total Increase in Maximum Limiting Fee—Amendment #2	
Previous Billing New Maximum Limiting Fee Previous Maximum Limiting Fee Total Increase in Maximum Limiting FeeAmendment #2	
Previous Billing New Maximum Limiting Fee Previous Maximum Limiting Fee Total Increase in Maximum Limiting FeeAmendment #2	
Previous Billing New Maximum Limiting Fee Previous Maximum Limiting Fee Total Increase in Maximum Limiting FeeAmendment #2	
Previous Billing New Maximum Limiting Fee Previous Maximum Limiting Fee Total Increase in Maximum Limiting FeeAmendment #2	
Previous Billing New Maximum Limiting Fee Previous Maximum Limiting Fee Total Increase in Maximum Limiting Fee-Amendment #2	
Previous Billing New Maximum Limiting Fee Previous Maximum Limiting Fee Total Increase in Maximum Limiting FeeAmendment #2	
Previous Billing New Maximum Limiting Fee Previous Maximum Limiting Fee Total Increase in Maximum Limiting FeeAmendment #2	
Previous Billing New Maximum Limiting Fee Previous Maximum Limiting Fee Total Increase in Maximum Limiting Fee-Amendment #2	405.070.00
New Maximum Limiting Fee Previous Maximum Limiting Fee Total Increase in Maximum Limiting FeeAmendment #2	\$95,373.90
New Maximum Limiting Fee Previous Maximum Limiting Fee Total Increase in Maximum Limiting FeeAmendment #2	
Previous Maximum Limiting Fee Total Increase in Maximum Limiting FeeAmendment #2	\$132,621.42
Previous Maximum Limiting Fee Total Increase in Maximum Limiting FeeAmendment #2	
Previous Maximum Limiting Fee Total Increase in Maximum Limiting FeeAmendment #2	\$227,995.32
Total Increase in Maximum Limiting FeeAmendment #2	
Total Increase in Maximum Limiting FeeAmendment #2	\$153,046.00
	\$74,949.32
	\$74,040.02
	
	
Roadway, major drainage and utilities from Seeaire Drive west to Wedgewood excluded from this Final Design-Amendment to Contract Required to Finish Final Design	
44th Street Outfall to South Canyon Drainage at West Main St excluded from this Final Design-Amendment to Contract Required to Finish Final Design	ļ
Street Lighting on West Chicago from 44th Street to Sturgis Road excluded from this Final DesignCity will contract directly with Electrical Engineer for Final Design	
	1



BENSHOOF & ASSOCIATES, INC.

TRANSPORTATION ENGINEERS AND PLANNERS

10417 EXCELSIOR BOULEVARD, SUITE TWO / HOPKINS, MN 55343 / (952) 238-1667 / FAX (952) 238-1671

FACSIMILE TRANSMITTAL

Date: January 27, 2004

Job No.

01-58

PLEASE DELIVER THE FOLLOWING PAGE(S) TO:

Name:

Randy Sauter

Fax No.:

605 341-7864

 Proposed Work Scope and Cost Estimate to Complete Traffic Signal Design for West Chicago Street/44th Street Intersection

Randy,

Please review the following draft proposal and contact me with any questions or comments. If the proposal is acceptable as is, please return one signed copy to me as our authorization to proceed.

7

This transmittal is being sent by: Ed Terhaar

If you do not receive

4 pages, including this sheet, please call 952/238-1667.

BENSHOOF & ASSOCIATES, INC.

TRANSPORTATION ENGINEERS AND PLANNERS

10417 EXCELSIOR BOULEVARD, SUITE TWO / HOPKINS, MN 55343 / (952) 238-1667 / FAX (952) 238-1671

January 27, 2004

Mr. Randy Sauter CETEC Engineering Services, Inc. 1830 West Fulton Street P.O. Box 9014 Rapid City, SD 57709

RE:

Proposed Work Scope and Cost Estimate to Complete Traffic Signal Design for West Chicago Street/44th Street Intersection

Dear Randy:

As a follow-up to our recent phone conversations, this letter is to present our proposed work scope to complete the traffic signal design for the West Chicago Street/44th Street intersection. This work will build upon the items we have already completed in this area over the past two years. Over the past few months, the City has taken steps to change the intersection layout to create a four legged intersection as opposed to the original five legged design. Our current work scope accounts for this change in the basic layout of the intersection.

As in our previous work, our role on this project will be to complete the traffic signal design to standards necessary for construction and to provide input to the roadway design and signing and striping plans.

SCOPE OF SERVICES

The services mentioned above will be accomplished through the following work tasks:

- 1) Establish Project Framework. As a first step, we will review our role on this project and establish the steps needed to complete our work in an effective and efficient manner.
- 2) Input to Roadway Design. After reviewing pertinent background information, we will provide input to the initial roadway design based on our traffic engineering background. We will work closely with you in order to answer questions related to traffic operations of the roadway and intersection.

P. 0.3/04

3) Traffic Signal Plans and Specifications

- a) Obtain and review base mapping needed for the project. The purpose of this task is to obtain and review the proposed base maps for the intersection. It is expected that CETEC Engineering Services, Inc. will provide the base mapping for the intersection with the appropriate layout and title block formats. This base mapping will be used to prepare the necessary traffic signal plan sheets.
- b) <u>Prepare traffic signal plans and special provisions.</u> This task is to prepare the complete plans and special provisions for the traffic signal. The following specific tasks will be performed;
 - b.1 Establish design parameters and background data, develop the traffic signal control plans and prepare preliminary signal layouts including placement of signal heads and detectors. This work will be coordinated and discussed with CETEC Engineering Services, Inc. and City staff
 - b.2 Complete the draft signal layout plans and other plan sheets.
 - b.3 Prepare complete special provisions for the signal system.
 - b.4 Submit the complete draft plans and special provisions for review by the City.
 - b.5 Revise the draft plans and special provisions as needed to prepare final plans and special provisions.
 - b.6 Submit final signal plans and special provisions to CETEC Engineering Services, Inc. for inclusion into the overall bid documents which will be submitted for final City approvals.
- c) <u>Construction Inspection.</u> We have included time and costs for one trip to the project site to provide general inspection.
- Develop Signing and Striping Plan. We will develop a signing and striping plan for the West Chicago Street/44th Street intersection. This plan will take into account the special signing and striping needs for this intersection. We will provide this plan to CETEC staff for inclusion in the overall construction documents.
- 5) Provide Assistance During Bidding and Construction. We will answer questions related to the signal plans and specifications during the bidding and construction phases. We will also review signal system shop drawings as they are produced.

Mr. Randy Sauter

-3-

January 27, 2004

Date

COST ESTIMATE

Labor costs for our work will be invoiced on an hourly basis using the following rates: Sr. Principal - \$130.00, Principal - \$95.00, Professional - \$65.00, and Technician - \$55.00. Direct expenses will be billed at cost. The total estimated cost to complete all of the work tasks listed above is \$12,250. Any extra items are requested will be billed on an hourly basis. In any event, we will not proceed on any extra work unless you specifically direct us to do so. We will coordinate closely with you and will focus tightly on the specific issues in order to complete our work effectively and at minimal cost. Invoices will be submitted on a monthly basis for work performed in the prior month. Payment terms are 30 days from date of invoice.

If these arrangements are acceptable, please sign below and return one copy to me. We are enthused about this project and look forward to working with you and other participants to complete the signal design.

Sincerely,

BENSHOOF & ASSOCIATES, INC.	CETEC ENGINEERING	3 SERVICES, INC	·-
EllAhlon		Pr	
Edward F. Terhaar, P.E.	,	•	

Name



MEMO

DATE:

January 20, 2004

TO:

Randy Sauter

CETEC Engineering Services, Inc.

Rapid City, SD

FROM:

Bob Thompson

RE:

West Chicago/South Canyon

44th Street to West of Grays Drive

Rapid City, SD WPE #R01058

Find attached our fee proposal for the electrical design period services to complete the project design as we discussed (Layout Alternative 2, Figure 26)

We anticipate providing street lighting and conduit provisions for the intersection signalization. We anticipate the signal layout and design will be done by your traffic consultant.

Please review and let me know if you have any questions or need any more information.

Thanks.



West Plains Engineering Rapid City, SD

Electrical Fee Proposal

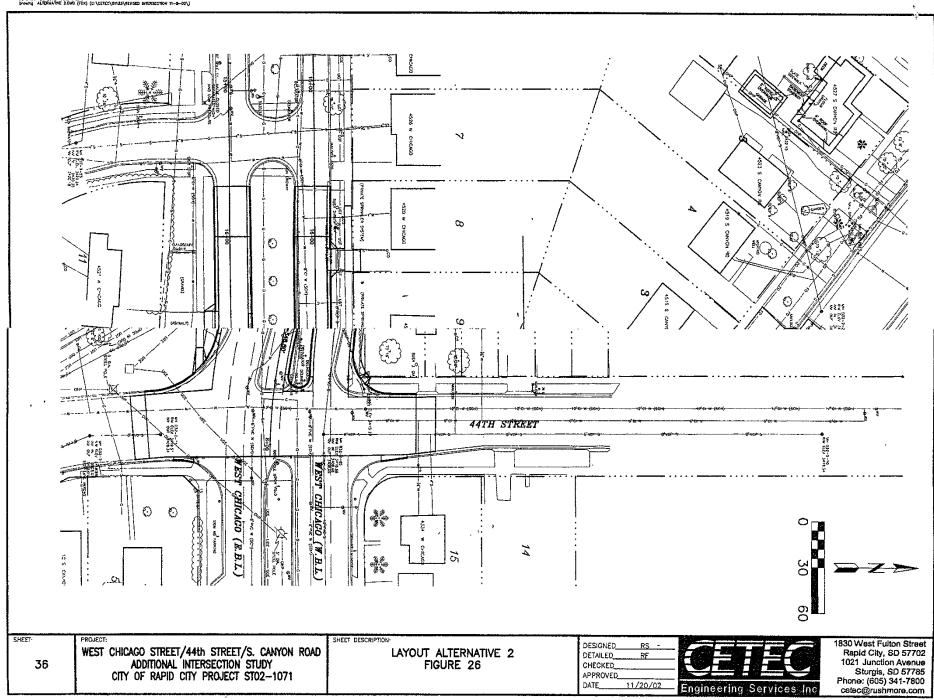
Street Lighting West Chicago/South Canyon (44th Street to West of Grays Drive) Rapid City, SD

1/20/2004

		Principal Manhours		•	Design Engineer Manhours	_	Clerical Manhours
95% design submittal		4	0	32	0	20	4
Final Design completion		2	0	6	0	4	0
Bid Phase		0	0	0	4	0	1
Shop Drawing review		0	0	0	4	0	1
Total Manhours		6	0	38	8	24	6
Total Manhours -	82						
Direct Labor Rate/Manhour		\$51.78	\$40.28	\$32.60	\$23.01	\$17.26	\$15.34
Subtotal Direct Labor Cost		\$310.68	\$0.00	\$1,238.80	\$184.08	\$414.24	\$92.04
Direct Labor Overhead -	34%	\$105,63	\$0.00	\$421.19	\$62.59	\$140.84	\$31.29
General & Administrative Overhead -	104%		•	\$1,288.35	\$191.44	\$430.81	\$95.72
Subtotal		\$739.42	\$0.00	\$2,948.34	\$438.11	\$985.89	\$219.06
Profit -	10%	\$73.94	\$0.00	\$294.83	\$43.81	\$98.59	\$21.91
Additional Costs	10 %	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Subtotal		\$813.36	\$0.00	\$3,243.18	\$481.92	\$1,084.48	\$240.96

\$5,863.90

Total Proposal Amount -



DATE

11/20/02

Engineering Services Inc

