

SUPPLEMENTAL AGREEMENT #1

CITY OF LINCOLN, NEBRASKA
THE SCHEMMER ASSOCIATES, INC.
PROJECT NO. HSIP-5227(7)
CONTROL NO. 12944
N 14th ST, (EB) ON-RAMP TO US-6

THIS SUPPLEMENTAL AGREEMENT, made and entered into by and between City of Lincoln, Nebraska, hereinafter referred to as the Local Public Agency or "LPA," and The Schemmer Associates hereinafter referred to as the "Consultant."

WHEREAS, the Consultant and the LPA entered into Engineering Agreement BO1251 executed by the Consultant on October 24, 2012 and executed by the LPA on December 7, 2012, hereinafter referred to as the "Original Agreement", and providing for preliminary engineering services for Project No. HSIP-5227(7), and

WHEREAS, it is necessary that work not contemplated in the Original Agreement, be added under this supplemental agreement, and

WHEREAS, it is necessary to increase the Consultant's compensation by this supplemental agreement for the additional work necessary to complete the project, and

WHEREAS, it is the desire of the LPA that the project be constructed under the designation of Project No. HSIP-5227(7), as evidenced by the Resolution of the LPA dated the _____ day of _____, 2013, attached and identified as EXHIBIT "A" and made a part of this agreement, and

NOW THEREFORE, in consideration of these facts, the Consultant and LPA agree as follows:

SECTION 1. A Written Notice-to-Proceed was issued to the Consultant on July 23, 2013 to perform the additional work through Consultant Work Order 1. Any additional work or services performed by Consultant on the project prior to the date specified in the written Notice-to-Proceed is not eligible for reimbursement.

SECTION 2. The Consultant will perform the additional work stipulated in Consultant Work Order 1, which is attached as Exhibit "B" and hereby made a part of this supplemental agreement.

SECTION 3. For the work required, Section 9 of the Original Agreement is hereby amended and the fixed-fee-for-profit is increased from \$24,426.77 to \$29,099.43, an increase of \$4,672.66. Actual costs are increased from \$190,121.58 to \$229,816.96, an increase of \$39,695.38. The total agreement amount is increased from \$214,548.35 to \$258,916.39, an increase of \$44,368.04 which the Consultant must not exceed without the prior written approval of the LPA.

SECTION 4. The Consultant will be paid the additional fee on the same terms stipulated in the Original Agreement and, except as specifically amended by this supplemental agreement, all

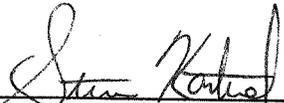
terms and conditions of the Original Agreement on Project No. HSIP-5227(7), executed by the Consultant on October 24, 2012 and executed by the LPA on December 7, 2012 shall remain in full force and effect.

IN WITNESS WHEREOF, the parties have caused these presents to be executed by their proper officials thereunto duly authorized as of the dates below indicated.

After being duly sworn on oath, I do hereby acknowledge the foregoing certification and state that I am authorized to sign this agreement for the firm.

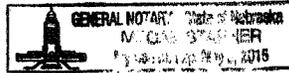
EXECUTED by the Consultant this 7th day of August, 2013.

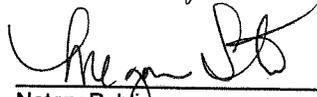
THE SCHEMMER ASSOCIATES, INC.
Steve Kathol, P.E.


Principal

STATE OF NEBRASKA)
)ss.
DOUGLAS COUNTY)

Subscribed and sworn to before me this 7th day of August, 2013.




Notary Public

EXECUTED by the LPA this _____ day of _____, 2013.

CITY OF LINCOLN
Chris Beutler

Mayor

Subscribed and sworn to before me this _____ day of _____, 2013.

Clerk

STATE OF NEBRASKA
DEPARTMENT OF ROADS
Form of Agreement Approved for
Federal Funding Eligibility:

Date

Consultant Work Order (Local Projects)

Project No.: HSIP-5227(7)		Control No.: 12944
Consultant: (Name and Representative) The Schemmer Associates, Mark Lutjeharms		Agreement No.: BO1251
LPA: (Name and Representative) City of Lincoln, Craig Aldridge		Work Order No.: 1
Constr. Change Order No.: (if applicable)		
<p>All parties agree the following described work needs to be performed by the consultant as part of the referenced project. All parties concur and hereby give notice to proceed based on the following: justification to modify contract, scope of services, deliverables, schedule, and estimated total fee. All other terms of existing agreements between the parties are still in effect. It is understood by all parties that the work described herein will become part of a future supplement to the agreement indicated above.</p> <p>Justification to modify agreement (Include scope of services, deliverables, and schedule) Appendix B of the Professional Engineering/NEPA Agreement listed above to be modified to add an additional alternative for analysis. This alternative will be to close and remove the northbound (14th St.) to eastbound (US Highway 6) on-ramp and allow traffic to access eastbound US Highway 6 via other routes.</p> <p>See attached scope of services.</p>		
Work Title		Summary of Fee
Supplement #1 to Preliminary Engineering/NEPA Agreement		A. Total Direct Labor Cost = 13,154.22
		B. Overhead (Factor * x A) = 22,651.57
		C. A + B = 35,805.79
		D. Profit/Fee (Factor ** x C) = 4,672.66
*Overhead Factor: 172.20%	E. Direct Non-Labor Cost = 647.20	
**Profit/Fee Factor: 13.05%	F. Subconsultant Services = 3,242.39	
Total Fee Notes:		TOTAL FEE: C + D + E + F = 44,368.04
		<input checked="" type="checkbox"/> ESTIMATED TOTAL FEE: \$44,368.04
		<input type="checkbox"/> FINAL TOTAL FEE:

Work Order Authorization – May be granted by email and attached to this document.

Consultant: The Schemmer Associates Inc
Mark Lutjeharms Name [Signature] Signature 7-17-13 Date

LPA: City of Lincoln
Craig Aldridge Name [Signature] Signature 7-23-13 Date

LPD PC (for Preliminary Engineering) and State Rep. (for Construction Engineering):
[Signature] Signature [Date] Date

FHWA:
DANNY BRIGGS Name [Signature] Signature 7/22/13 Date

Notice to Proceed will be granted by email by:
 LPD PC for Preliminary Engineering & CD PC for Construction Engineering.

Notice to Proceed Date:
[Signature]

Distribution: Consultant, LPA – RC, State Rep., FHWA, LPD PC, NDOR Agreements Engineer, Highway Funds Manager, CD PC

**SCOPE OF SERVICES
PRELIMINARY DESIGN
PROJECT: HSIP-5227(7)
CONTROL NO.: 12944**

**LOCATION: N. 14th Street & Eastbound U.S. 6 On-Ramp – Lincoln, NE
TYPE OF WORK: Safety Project**

**WORK ORDER NO. 1
July 17, 2013**

PROJECT DESCRIPTION

This scope of services provides for the Consultant to complete additional tasks for the above project at, or near, the intersection of N. 14th Street & U.S. Highway 6 (Cornhusker Highway) in Lincoln, Nebraska. Additional work is related to the evaluation of an additional alternative not included in the original scope of services. This alternative generally includes the closure of the existing N. 14th Street to eastbound US-6 on-ramp and relying on the remaining local street network to accommodate the diverted traffic volumes.

TASK 1 PROJECT MANAGEMENT

a. Project Management

The Consultant Project Manager will serve as point of contact, maintain project schedule and budget, and be responsible for coordinating work of sub-Consultants. Provide regular progress reports with invoices. This task includes project management effort incurred as a result of the project schedule extending four (4) months.

b. Coordination with Others

The Consultant will coordinate their design with agencies and/or Consultants that are involved with this project or adjacent projects, including the Lincoln Planning Department's entryway corridor project. Coordination includes one-on-one meetings with the agencies or Consultants. This task does not include coordination with utilities.

TASK 2 GENERAL PROJECT MEETINGS

a. Kick-Off Meeting

No additional effort

b. Progress Meetings (2)

Two (2) additional progress meetings is added to the project schedule as part of this work order. The Consultant will schedule and attend all progress meetings. The Consultant will create and distribute a meeting agenda at least 48 hours prior to all progress meetings.

TASK 3 TOPOGRAPHIC SURVEY

Additional topographic survey tasks will only be performed, as part of a separate work order, if the additional alternative being studied as part of Work Order No. 1 is found to be prudent and feasible and advanced to subsequent stages of the project.

TASK 4 RIGHT OF WAY SURVEY

No additional right of way survey activities are anticipated with the additional alternative.

TASK 5 UTILITY COORDINATION

Utility coordination associated with the additional alternative will be performed as part of the utility coordination effort related to the original scope of services.

Project No.: HSIP-5227(7)
Control No.: 12944
Location: N. 14th Street & Eastbound U.S. 6 On-Ramp – Lincoln, NE
Preliminary Design

EXHIBIT "B"

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TASK 6 PUBLIC INVOLVEMENT

- a. Public Involvement Plan
No additional effort anticipated.
- b. Key Stakeholder Outreach (6 Meetings)
The Consultant and LPA staff will identify key project stakeholders for participation in focus group meetings prior to the public meetings. The Consultant shall be responsible for distributing meeting invitations, coordinating meeting locations, facilitating, and preparing meeting minutes.
- c. City Council/County Board
No additional effort anticipated
- d. Open Houses
No additional effort anticipated.
- e. Website / Newsletters / Informational Materials
The Consultant to revise newsletter #1 to include the additional alternative being evaluated.
- f. Public Involvement Documentation
No additional effort anticipated.

TASK 7 DRAINAGE ANALYSIS

Additional drainage analysis tasks will only be performed, as part of a separate work order, if the additional alternative being studied as part of Work Order No. 1 is found to be prudent and feasible and advanced to subsequent stages of the project.

TASK 8 TRAFFIC STUDY

No origin-destination studies are included with this work order.

- a. Traffic Data Collection - 48-hour machine counts
The Consultant will conduct the 48-Hour Machine Counts at the following locations to obtain vehicle classification and the average daily traffic volumes. The machine counts will be completed at the following locations:
 - Saunders Avenue, between N. 11th Street and N. 14th Street
 - Military Road, between N. 10th Street and N. 14th Street
 - N. 11th Street, between Sun Valley Boulevard and Saunders Avenue
 - N. 11th Street, between Saunders Avenue and Cornhusker Highway
 - Yolande Avenue, from N. 14th Street to US-6
 - Diagonal roadway between N. 14th Street and Yolande Avenue
- b. Traffic Data Collection - peak hour turning movement counts
The Consultant will conduct the following two-hour turning movement counts during the A.M. Peak and P.M. Peak Commuter Periods
 - N. 11th Street and Cornhusker Highway
 - N. 11th Street and Saunders Avenue
 - N. 14th Street and Military Road
 - N. 14th Street and Adams Street

The Consultant will conduct the following eight-hour turning movement counts

 - US-6 and Yolande Avenue
 - N. 10th Street and Military Road
 - N. 14th Street and Saunders Avenue
 - N. 14th Street and Yolande Avenue
- c. Projected Year Traffic Volume Forecast (20 Year Projection)
Consultant will review the projected Year 2040 traffic forecasts. The forecast volumes will be checked for reasonableness and developed into projected turning movement volumes.

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d. Traffic Analysis

1. The Consultant will complete capacity calculations for the for the following traffic volume scenarios:
 - Existing Conditions (Existing volumes, existing lane configurations)
 - Includes scenarios for pre- and post- Husker football game conditions
 - Projected Year (20 years beyond construction completion) Conditions (No Build)
 - Projected Year (20 years beyond construction completion) Conditions with improvements

The capacity analyses include completing unsignalized intersection capacity analysis, traffic signal warrant analyses, traffic signal capacity analyses and roundabout capacity analysis using Synchro, HCS2010 and Sidra Intersection software.

The Consultant will analyze and develop appropriate improvements to all legs of intersections along the project. The analysis will include turn lane locations and lengths, U-turn movements for passenger vehicles, sidewalk ramp locations and turning movement radii based on the design vehicle.

2. Consultant will review the available crashes that have been reported at the study intersections. The crash data review will be summarized into the traffic analysis report. This task will also include use of the Highway Safety Manual to compare the safety benefits of each project alternative.
3. Upon completion of the traffic analysis, the Consultant will revise the draft traffic analysis report (May 2013), to be reviewed by the RC, that contains graphics as needed to reflect the recommendations, geometrics, and design alternatives studied.

e. Conceptual Alternatives

One (1) alternative is added to this task, as summarized below:

- Close existing N. 14th Street to eastbound US-6 on-ramp

Impacts to, and improvements needed for up to three (3) other existing streets, as alternate routes to the closure of the existing on-ramp, will be considered as part of task 8f, including:

- Saunders Avenue, between 11th Street and 14th Street
- Military Road, between 10th Street and 14th Street
- Yolande Avenue, between 14th Street and US-6 (Cornhusker Hwy)

f. Conceptual Engineering

The conceptual design for the additional Build alternative will be conducted to a level that provides the following, as needed:

- Calculation of ROW requirements, identification of property owners, delineation of structures to be taken, identification of the number and type of relocations, acreage to be taken, easements, residuals, assessment of access issues
- Calculation of drainage areas and pipe sizes for major drainage ways based on the proposed alignment and profile
- Concept level cost estimates that include construction, ROW and utilities
- Results of the conceptual engineering as well as the location of environmental resources plotted on a base map
- Geotechnical data
- Information necessary to complete the environmental document

The Concept design task will be coordinated with the NEPA process. Concept layouts on aerial photography for the build alternatives will be prepared for review by the City and other agencies. Concept design will be completed to approximately 10% of the overall design effort and include concept level limits of construction based on available contour data. The Consultant will prepare design memorandum with project criteria and design standard information for submittal and agreement by the City's Project Manager. An opinion of probable construction costs will also be prepared.

TASK 9 GEOTECHNICAL EVALUATION

It is assumed that if this additional alternative is found to be prudent and feasible that the existing pavement along Saunders Avenue, between N. 12th Street and N. 14th Street will require complete reconstruction and the section of Saunders Avenue, between N. 11th

Project No.: HSIP-5227(7)
Control No.: 12944
Location: N. 14th Street & Eastbound U.S. 6 On-Ramp - Lincoln, NE
Preliminary Design

Preliminary Design Final Hours - Consultant Work Order No. 1

Project Name:	N. 14th St. & EB Off-Ramp to U.S. Highway 6 Safety Project
Project Number:	HSP-8227(7)
Control Number:	12944
Location (City, County):	Lincoln, Lancaster
Firm Name:	The Schemmer Associates
Consultant Project Manager:	Mark Lujeharms
Phone/Email:	W. (402) 468-2500 C. (402) 431-6207 mlujeharms@schemmer.com
LPA Responsible Charge:	Craig Aldridge
Phone/Email:	(402) 418-8349 caaldrige@lincoln.ne.gov
NDOR Project Coordinator:	Rada Tigras
Phone/Email:	(402) 476-3843 rtigras@nebraska.gov
Date:	7/17/2013

TASKS	PERSONNEL CLASSIFICATIONS*										Total	
	PR	SR	ENG	ENG	DES	TECH	PI	RLS	SCC	S TECH		ADMIN
For Preliminary Design												
1. Project Management												
a. Project Management		2	16									18
b. Coordination with Others			12	8								20
c. Design Memorandum												
2. General Project Meetings												
a. Kick Off Meeting												
b. Progress Meetings			16	8								
c. Review Meetings												
d. Plan-in-Hand												
3. Topographic Survey												
a. Topographical Survey												
b. Base Map Preparation												
c. Horizontal Control												
d. Vertical Control												
e. Locate Section Corners												
f. Bench Level Run												
g. Utility Locates												
4. Right-of-Way Survey												
a. Right-of-Way Survey												
5. Utility Coordination												
a. Utility Location / Verification												
b. Utility Plan Submittals												
6. Public Involvement												
a. Public Involvement Plan												
b. Key Stakeholder Outreach			24	24								48
c. City Council / County Board												
d. Open Houses												
e. Website / Information Materials			2	2			4					
f. Public Involvement Documentation												
7. Drainage Analysis												
a. Hydraulic / Hydrologic Analysis												
b. Preliminary Drainage Studies												
8. Traffic Study												
a. Traffic Data - 48 hour machine counts			4			18						22
b. Traffic Data - Peak hour TMCs			2			70						72
c. Projected Year Traffic Volume Forecast			2	4								6
d. Traffic Analysis			30	60		8						98
e. Conceptual Alternatives			2	16								18
f. Conceptual Engineering			2	24								26
9. Geotechnical Evaluation												
a. Data Research												
b. Design Recommendations												
c. Geotechnical Report												
d. Pavement Determination												
e. S-K sheets												
10. Environmental Documentation												
a. Resource Review												
b. SHPO Letter												
c. Section 4(f) / 6(f) Evaluation												
d. Wetland Delimitation												
e. Threatened and Endangered Species												
f. Environmental Justice												
g. Farmland												
h. Hazardous Materials												
i. Documentation and Revisions												
11. Preliminary Design												
a. Video / Photo Log												
b. Design Criteria												
c. Title Sheet												
d. Typical Sections												
e. Aerial Photo Sheets												
f. Horizontal / Vertical Control Sheets												
g. General Notes Sheets												
h. Construction Phasing Plans												
i. Geometric Sheets												
j. Construction / Drainage Sheets												
k. Removal Sheets												
l. Plan and Profile Sheets												
m. Roadway Cross Sections												
n. Summary of Quantities												
o. Plan-in-Hand Plans												
12. Quality Assurance / Quality Control												
a. Quality Assurance / Quality Control												
Total Hours		2	119	148		98	4					361
Total Days (8 hrs)		0.3	14.9	18.5		12.3	0.5					45.5

Consultant Independent Cost Estimate for CN 13147
Estimate of Hours

EXHIBIT "B"

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Preliminary Design Project Cost - Consultant Work Order No. 1

Project Name:	N. 14th St. & EB Off-Ramp to U.S. Highway 6 Safety Project
Project Number:	HSIP-5227(7)
Control Number:	12944
Location (City, County):	Lincoln, Lancaster
Firm Name:	The Schemmer Associates
Consultant Project Manager:	Mark Lutjeharms
Phone/Email:	W: (402) 488-2500 C: (402) 431-6207 / mlutjeharms@schemmer.com
LPA Responsible Charge:	Craig Aldridge
Phone/Email:	(402) 416-5349 caldridge@lincoln.ne.gov
NDOR Project Coordinator:	Raitis Tigeris
Phone/Email:	(402) 479-3843 / raitis.tigeris@nebraska.gov
Date:	7/17/2013

Direct Labor Costs:			
Personnel Classification	Hours	Rate	Amount
Principal	2	\$56.51	\$113.02
Project Manager / Senior Engineer	112	\$46.76	\$5,237.12
Project Engineer/Senior Technician	146	\$38.96	\$5,688.16
Engineer/Senior Technician		\$23.88	
Engineering Technician	96	\$20.89	\$2,005.44
Public Involvement Coordinator	4	\$27.62	\$110.48
Registered Surveyor		\$36.67	
Survey Crew Chief		\$26.48	
Survey Technician		\$19.30	
Administrative Assistant		\$20.10	
TOTALS	360		\$13,154.22

Direct Expenses:	
	Amount
Subconsultants	\$3,242.39
Printing and Reproduction Costs	\$100.00
Mileage/Travel	\$547.20
Lodging/ Meals	
Other Miscellaneous Costs	
TOTALS	\$3,889.59

Total Project Costs:		
		Amount
Direct Labor Costs		\$13,154.22
Overhead @	172.20%	\$22,651.57
Total Labor Costs		\$35,805.79
Fixed Fee @	13.05%	\$4,672.66
Direct Expenses		\$3,889.59
PROJECT COST		\$44,368.04

Consultant Independent Cost Estimate for CN 13147
Project Cost

EXHIBIT "B"

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