

BOARD OF COUNTY COMMISSIONERS
SARPY COUNTY, NEBRASKA

14/000612

RESOLUTION APPROVING AND AUTHORIZING CHAIRMAN TO SIGN SUPPLEMENTAL AGREEMENT #2 FOR PRELIMINARY ENGINEERING SERVICES WITH HDR ENGINEERING, INC. FOR IMPROVEMENTS TO THE INTERSECTION OF 132ND STREET & WEST GILES ROAD, PROJECT NO. MAPA-5005(1), CONTROL No. 22283

WHEREAS, pursuant to Neb. Rev. Stat. § 23-104(6) (Reissue 2012), the County has the power to do all acts in relation to the concerns of the County necessary to the exercise of its corporate powers;

WHEREAS, pursuant to Neb. Rev. Stat. § 23-103 (Reissue 2012), the powers of the County as a body are exercised by the County Board;

WHEREAS, the County and HDR ENGINEERING, INC. previously executed a Preliminary Engineering Services Agreement via resolution 2010-252, for improvements to the intersection of 132nd Street and West Giles Road, Project No. MAPA-5005(1), Control No. 22283;

WHEREAS, the County and HDR ENGINEERING, INC. desire to enter into Supplemental Agreement #2 (attached hereto);

WHEREAS, Supplemental Agreement #2 is necessary to update the schedule, labor rates, scope and deliverables, and work to address new quiet zone requirements and minor geometrics revisions; and

WHEREAS, Supplemental Agreement #2 is also necessary to increase the project compensation from \$284,926.00 to \$328,585.00, for the additional work identified above.

NOW THEREFORE, BE IT RESOLVED by the Sarpy County Board of Commissioners that this Board hereby approves Supplemental Agreement #2, and any other related documents, the same being approved by the Board.

BE IT FURTHER RESOLVED that the Chair and the Clerk are hereby authorized to execute said agreement on behalf of Sarpy County, Nebraska.

The above Resolution was approved by a vote of the Sarpy County Board of Commissioners at a public meeting duly held in accordance with the applicable law on the 22nd day of April, 2014


Sarpy County Board Chairman

Attest


County Clerk

SUPPLEMENTAL AGREEMENT #2
PRELIMINARY ENGINEERING SERVICES

SARPY COUNTY, NEBRASKA
HDR ENGINEERING, INC.
PROJECT NO. MAPA-5005(1)
CONTROL NO. 22283
132ND ST/WEST GILES RD, LA VISTA

THIS SUPPLEMENTAL AGREEMENT, made and entered into by and between Sarpy County, Nebraska, hereinafter referred to as the Local Public Agency or "LPA," and HDR Engineering, Inc., hereinafter referred to as the "Consultant."

WHEREAS, the Consultant and the LPA entered into Engineering Agreement BK1079 executed by the Consultant on August 5, 2010 and executed by the LPA on July 27, 2010, hereinafter referred to as the "Original Agreement" and a supplemental agreement executed by the Consultant on September 26, 2012 and by the LPA on September 18, 2012, hereinafter referred to as "Supplemental Agreement No. 1" providing for preliminary engineering and environmental documentation services for Project No. MAPA-5005(1), and

WHEREAS, it is necessary to update the schedule, labor rates, scope and deliverables and work to address new quiet zone requirements and minor geometrics revisions, 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. MAPA-5005(1), as evidenced by the Resolution of the LPA dated the 22nd day of April, 2014, 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 March 19, 2014 to perform the additional work through Consultant Work Order 3. 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. The Consultant will perform the additional work stipulated in Consultant Work Order 3, which is attached as Exhibit "B" and hereby made a part of this supplemental agreement.

SECTION 2. For the work required, Section 7 of the Original Agreement is hereby amended and the fixed-fee-for-profit is increased from \$28,298.00 to \$32,926.00, an increase of \$4,628.00. Actual costs are increased from \$256,628.00 to \$295,659.00, an increase of \$39,031.00. The total agreement amount is increased from \$284,926.00 to \$328,585.00, an increase of \$43,659.00 which the Consultant must not exceed without the prior written approval of the LPA.

BK 1079 *Supp #2*

SECTION 3. The Consultant will be paid the additional fee on the same terms stipulated in the Original Agreement BK1079 and, except as specifically amended by this supplemental agreement, all terms and conditions of the Original Agreement on Project No. MAPA-5005(1), executed by the Consultant on August 5, 2010 and executed by the LPA on July 27, 2010 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.

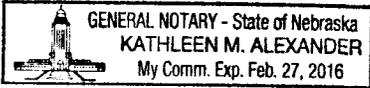
EXECUTED by the Consultant this 30 day of April, 2014.

HDR ENGINEERING, INC.
Matthew Tondl, P.E.

Matthew Tondl
Senior Vice President

STATE OF NEBRASKA)
)ss.
DOUGLAS COUNTY)

Subscribed and sworn to before me this 30 day of April, 2014.



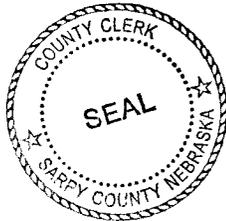
Kathleen M. Alexander
Notary Public

EXECUTED by the LPA this 22nd day of April, 2014.

SARPY COUNTY
Jim Thompson

Jim Thompson
Chair, County Board of Commissioners

Subscribed and sworn to before me this 22nd day of April, 2014.



Renee Lausman
Clerk

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

[Signature]
May 5, 2014
Date

Consultant Work Order (Local Projects)

Project No.: C-77(05-8)		Control No.: 22283
Consultant: (Name and Representative) Chris Malmberg - HDR Engineering INC.	Agreement No.: BK1079	Work Order No.: 3
LPA: (Name and Representative) Bill Herr - Sarpy County		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) The purpose of the work order is to: Update the schedule, Update the labor rates, Update scope and deliverables for the LPA process and Update the West Giles Intersection. The original project schedule had a March 2012 letting. Due to the NEPA documentation and traffic modeling delays, the current project schedule estimates a December 2015 letting. This work order also reconciles the differences in final plan deliverables and processes required for the LPA project development processes compared to the original scope developed prior to the LPA process. The adjacent Railroad crossings have recently been reconstructed to accommodate quite zone requirements. These changes require some minor geometrics revision and pavement markings/ changes.</p>		
Work Title	Summary of Fee	
Final Design - Schedule Update	A. Total Direct Labor Cost	= 15,011.00
	B. Overhead (Factor * x A)	= 23,700.00
	C. A + B	= 38,711.00
	D. Profit/Fee (Factor ** x C)	= 4,628.00
*Overhead Factor:	157.88%	E. Direct Non-Labor Cost
**Profit/Fee Factor:	12.00%	= 320.00
Total Fee Notes:		F. Subconsultant Services
		= 0.00
		TOTAL FEE: C + D + E + F
		=
		<input type="checkbox"/> ESTIMATED TOTAL FEE:
		<input checked="" type="checkbox"/> FINAL TOTAL FEE: \$43,659.00

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

Consultant:

Matthew Bl Tondl 03/04/2014
 Name Matthew B. Tondl Signature Date

LPA:

Bill Herr 3/11/14
 Name Bill Herr Signature Date

LPD PC (for Preliminary Engineering) and State Rep. (for Construction Engineering):

Michael Kleffner 3/14/14
 Name Michael Kleffner Signature Date

FHWA:

Local Projects Engineer 3/19/14
 Name LARRY L. LEE Signature Date

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

Notice to Proceed Date:
3/19/14

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

WORK ORDER #3

132ND STREET AND GILES ROAD INTERSECTION IMPROVEMENT MAPA – 5005(1), C.N. 22283 SARPY COUNTY PROJECT NO. C-77(05-8)

Description of Work Order

The purpose of the work order is to:

- Update the schedule
- Update the labor rates
- Update scope and deliverables for the LPA process
- Update the West Giles Intersection

The additional items are due to the previous work stoppage related to the traffic volume review and NEPA documentation. The original project schedule had a March 2012 letting. The current project schedule estimates a December 2015 letting.

This work order also reconciles the differences in final plan deliverables and processes required for the LPA project development processes compared to the original scope developed prior to the LPA process.

The adjacent Railroad crossings have recently been reconstructed to accommodate quite zone requirements. These changes require some minor geometrics revision and pavement markings/ changes.

1.0 PROJECT MANAGEMENT AND COORDINATION

1.1 Project Management

This task includes activities to initiate and monitor schedule, staffing assignments, and internal cost controls for the revised schedule. The original schedule assumed final PS&E plans in September 2011 and the letting in March 2012. The new schedule assumes final PS&E Plans in October 2015 with an estimated December 2015 letting.

1.2 Coordination / Project Meetings

It is anticipated 3 coordination meetings will be held to review and discuss final design activities. These meetings will be held with Sarpy County and City of LaVista at Sarpy County with two HDR staff attending. Task includes preparing an agenda and meeting minutes.

1.3 Quality Control

This task is to review the DR 342 forms, additional cost estimate, NDOR forms (listed in 3.7) and plan submittal required.

2.0 ENVIRONMENTAL

2.1 Post Construction Stormwater Permit

As requested by the City of Omaha stormwater program, a post construction stormwater permit is necessary. The permit application was not included in the original scope of services. A drainage study is not included to complete the permit application.

WORK ORDER #3

132ND STREET AND GILES ROAD INTERSECTION IMPROVEMENT MAPA – 5005(1), C.N. 22283 SARPY COUNTY PROJECT NO. C-77(05-8)

3.0 ROADWAY

3.1 DR 342 – Information Sheet

Per the LPA project development process the DR 342 Project Information Sheet is submitted with the 90% plans and PS&E plans. The original scope did not include this form.

3.2 Roadway Horizontal / Vertical Alignments

The task includes adjustments to the shoulders and will include updating pavement markings that will be impacted by the quiet zone constructed on West Giles at the BNSF Railroad crossing. Additional horizontal and vertical geometric revisions are required to minimize impacts to the existing slope abutment of the I-80 bridge.

3.3 Final Roadway Cross Sections

This task includes developing the Earthwork quantities for final plans. The original scope assumed one set of earthwork quantities at the final plans only. In addition to the work already completed for the PIH we need to include the earthwork for 90% plans and final plans. The changes to the earthwork are the result of:

- Inclusion of the quiet zones after our project field survey.
- Additional pipe removal excavation (three additional pipes)
- Revisions needing to be made to geometry at the I-80 abutment to avoid impacts to the sloped paving per comments received after the PIH.

Resulting in one additional earthwork quantity update

3.4 Drainage Design

This task includes development of the hydrology & drainage cross-sections for three additional cross culvert drainage structures and storm sewer connections (3 in the original scope + 3 new culverts = 6 culvert cross sections and 2 new sections for storm sewer connections). This task also includes the development of the horse blankets for 3 additional pipe culverts.

3.5 Construction Cost Estimates

This task includes developing the construction costs estimates for the 90% and 100% Plan submittals. The original scope assumed 2 detailed estimates at plan-in-hand and final plans. The additional construction cost estimate is required for the 90% submittal, assumes minor revisions between 90% to 100%. Includes submittal of the DR 342, Project Information Sheet.

3.6 Special Plans

This task is for the development of the special plans for the proposed guardrail, curb concrete flumes and approach slab modifications. Four additional sheets will be required.

WORK ORDER #3

132ND STREET AND GILES ROAD INTERSECTION IMPROVEMENT MAPA – 5005(1), C.N. 22283 SARPY COUNTY PROJECT NO. C-77(05-8)

3.7 Plan Deliverables

This task is for the development, printing and revisions per comments for the additional plan deliverables required for the LPA process. The Base Plan, Preliminary Design plans and Functional Plans (PIH) from the original scope have been completed. After the PIH Plans the original Scope included Limits of Construction (90%) and Final Plans. The current process is to submit 90% Plans, 100% Plans and PS&E Plans, One more deliverable is now required. This task also includes time to document forms required by NDOR. Our original scope did not include providing the following forms in the deliverables section.

- guardrail summary sheet
- driveway intersections
- length sheet
- PS&E Form
- summary of quantities sheets for the additional submittal and for all submittals

4.0 RIGHT-OF-WAY

4.1 Tract Maps

The original scope assumed two tract maps and legal descriptions would be developed. Based on current design one additional tract map and legal description will be required. Temporary easements for three additional properties will be shown on ROW plans sheets.

5.0 SCHEDULE

An updated project schedule is included with this work order. The updated schedule showing project milestones is attached.

Work Order #3
 132nd Street and Giles Road Intersection Improvement
 MAPA-5005(1) CN 22283
 Sarpy County Project No. C-77(05-8)

STAFF HOUR TABULATION

Item	Task	Prin.	PM / Sr. Eng. / Sr. Sci	Eng. / Sci. / Designer	CAD / GIS	Clerical	Total
1.0	Project Management & Coordination						
1.1	Project Management	1	48			11	60
1.2	Project Meetings		10	14			24
1.3	QC		30				30
2.0	Environmental						
2.1	Post-Construction Stormwater Permit		6				6
3.0	Roadway Design						
3.1	DR-342 - Information Sheet		2	4			6
3.2	Roadway Horizontal / Vertical Alignments		4	8	16		28
3.3	Final Roadway Cross Sections			8	24		32
3.4	Drainage Design		4	16	42		62
3.5	Construction Cost Estimates			4	10		14
3.6	Special Plans		2	8	20		30
3.7	Plan Deliverables		6	16	36		58
4.0	Right-Of-Way						
4.1	Tract Maps		4	10	8		22
TOTAL HOURS		1	116	88	156	11	372

FEE SUMMARY

ESTIMATED DIRECT LABOR

CLASSIFICATION	TOTAL HOURS	HOURLY RATE	DIRECT LABOR COST
Principal	1	\$107.45	\$ 107
Project Manager/Senior Engineer/Senior Scientist	116	\$59.31	\$ 6,880
Engineer / Scientist / Designer	88	\$39.55	\$ 3,480
CAD / GIS	156	\$25.46	\$ 3,971
Clerical	11	\$38.65	\$ 425
TOTAL DIRECT LABOR COST	372		\$ 14,863

1/3 of total hours to be completed in 2015, assumed 3% increase for wage rates increase

\$ 148

OVERHEAD COST (157.88% OF DIRECT LABOR)

\$ 23,700

FIXED FEE (12%)

\$ 4,628

ESTIMATED DIRECT EXPENSES

	QUANT	UNIT	UNIT COST	TOTAL COST
Facilities Cost of Capital (0.18945% of Labor)				\$ 28
Travel (Mileage)	100	Miles	\$ 0.57	\$ 57
Photocopies	150	Sheets	\$ 0.10	\$ 15
Plots 11x17	500	Sheets	\$ 0.12	\$ 60
Plots 22x34	200	Sheets	\$ 0.80	\$ 160
TOTAL ESTIMATED DIRECT EXPENSE				\$ 320

TOTAL ESTIMATED FEE

\$ 43,659

