



**CONSULTANT AGREEMENT BETWEEN
OFFICE OF THE WOODBURY COUNTY ENGINEER
AND BEAR CREEK ARCHEOLOGY, INC.**

This will confirm your acceptance of our proposal (Exhibit A) for providing professional services relating to a Phase I investigation for three bridge replacements, three right-of-way acquisitions, and a road widening project in Woodbury County, Iowa.

1. Term

The term of this agreement shall be for a period of six months commencing April 7, 2015 or submittal of the reports to the Office of the Woodbury County Engineer.

2. General

Bear Creek Archeology, Inc. (BCA) has submitted a proposal (Exhibit A) to conduct a Phase I investigation for three bridge replacements, three right-of-way acquisitions, and a road widening project in Woodbury County, Iowa to Office of the Woodbury County Engineer. Acceptance of this proposal was received by BCA on April 7, 2015 (Exhibit B).

3. Scope of Work

The scope of services shall include Phase I cultural resource surveys for the three bridge replacements, three right-of-way acquisitions, and a road widening project in Woodbury County as outlined in our proposal dated March 26, 2015. Major tasks to be completed by BCA include:

- ◆ Phase I fieldwork
- ◆ Coordination and integration of geomorphic work on the sites and associated landforms
- ◆ Artifact and data analysis
- ◆ The production of a high quality field map
- ◆ The production of a high quality report for each of the five projects

4. Responsibility of Bear Creek Archeology, Inc.

BCA shall be responsible for the professional quality, technical accuracy, and the coordination of all Phase I investigations and analysis, designs, drawings, specifications, and other services furnished by BCA under this contract. BCA shall, without additional compensation, correct or revise any errors or deficiencies in its investigations, analysis, designs, drawing, specifications, and other services if requested by the State Historical Society of Iowa.

5. Landowner Permission

Office of the Woodbury County Engineer shall assist BCA in obtaining landowner permission for conducting the Phase I cultural resource surveys. Phase I cultural resource surveys shall be conducted only where landowner permission has been obtained. If landowner permission is denied at one or more of the locations, the responsibilities of BCA and the Payment will be adjusted accordingly.

6. Indemnification

BCA shall hold harmless and indemnify Office of the Woodbury County Engineer from and against all claims, suits, damages, losses, expenses, and attorney's fees arising out of or resulting from performance of the work, except for damage in the proposed right-of-way. Also, any liability on the part of BCA is limited to claims, suits, damages or losses, or expenses attributable to bodily injury, sickness, disease, or death, or to the injury, damage, or destruction of property (including the loss of use therefrom) resulting from the negligent acts or omissions of BCA, its agents and its direct or indirect employees (not including subcontractors of BCA).

7. Insurance

BCA will procure and maintain such insurance to protect the Office of the Woodbury County Engineer from claims under workmen's compensation acts, claims for damages because of bodily injury, including personal injury, sickness, disease, or death of any and all BCA employees or of any person other than such BCA employees. Also, any claims or damages because of injury to or destruction of property including loss of use resulting therefrom, and from claim, arising out of the performance of professional services caused by an error, omission, or negligent act for which he is legally liable. BCA's insurance coverage shall provide \$1,000,000 for general liability, \$1,000,000 for professional liability, and \$1,000,000 for auto liability.

BCA shall furnish certificates of insurance to the Office of the Woodbury County Engineer (Exhibit C) confirming the amounts of coverage and deductible for the following types of insurance:

Worker Compensation
Comprehensive General Liability
Professional Liability
Automobile-Personal Injury and Property Damage

8. Schedule

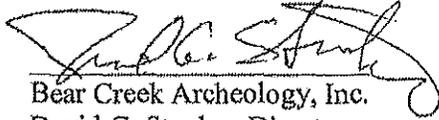
BCA shall proceed in a timely manner. Five copies of the report will be submitted to the Office of the Woodbury County Engineer no later than 30 business days after the completion of the fieldwork.

9. Payment

Payment for services outlined in our cost proposal shall be at the unit price amount for the various services shown in Exhibit B. The total payment for all services shall not exceed \$12,288.15 without prior authorization by the Office of the Woodbury County Engineer.

BCA warrants that the rates and prices to be charged under this Agreement represent competitive rates and prices that do not exceed its current established or published prices and charges and are no higher than BCA would quote to any other customer, including agencies of the U.S. Government.

Signatures of Authorized Individuals:



Bear Creek Archeology, Inc.
David G. Stanley, Director



Woodbury County Board of Supervisors



RESEARCH DESIGN FOR A PHASE I INVESTIGATION FOR THREE BRIDGE
REPLACEMENTS, THREE RIGHT-OF-WAY ACQUISITIONS,
AND A ROAD WIDENING PROJECT IN WOODBURY COUNTY, IOWA

Prepared for
Office of the Woodbury County Engineer

Prepared by
Bear Creek Archeology, Inc.
March 26, 2015

INTRODUCTION: The Office of the Woodbury County Engineer, Sioux City, Iowa is proposing a road widening project along 250th Street (Site A), a bridge replacement project along County Road D38 (Site B), a bridge replacement project along County Road K49 (Site C), a bridge replacement project along 280th Street (Site D), and three right-of-way (ROW) acquisitions along County Road D38 (Site E). This proposal will present basic background information concerning the landscape, previously recorded archeological sites, and other pertinent information at each of the locations. This proposal will also outline the types of intensive Phase I archeological work that can be expected at the affected sites, it will document the type of information that will be included in the reports, and it will offer a schedule for completion.

Bear Creek Archeology, Inc. (BCA) proposes to conduct the field investigations at each of the properties within the same week to limit expenses caused by travel time. Each of the projects (Sites A-E) will be described in individual reports even though fieldwork estimates are combined.

250th Street Road Widening Project (Site A). According to project plans, this project requires a project area that is approximately 2 miles long and 300 feet wide, centered on the existing centerline. The project will encompass approximately 72 linear acres. The widening will occur primarily on upland landforms, although a few potential alluvial fans might also be present. Most of the area occurs in agricultural fields and a few places are covered with grass. A site records review indicates that this entire area was previously surveyed by Billeck (1985) and Molyneaux (1996) prior to the publication of *Guidelines for Archeological Investigations in Iowa* (Association of Iowa Archaeologists 1999). Because of this, the project area will need to be resurveyed. There are two previously recorded archeological sites within the project area (13WD98 and 13WD99). Both sites represent abandoned Euro-American farmstead locations and neither site has been adequately tested to determine National Register of Historic Places (NRHP) eligibility.

BCA proposes to conduct intensive Phase I investigations of this project area using a mixture of landform modeling, pedestrian survey, and subsurface testing. Pedestrian survey will be used in

areas with greater than 30% ground surface visibility (GSV), with transect intervals spaced at no more than 15 m (49.2 ft). Subsurface testing will be conducted in areas with limited GSV that have archeological potential (approximately 3.5 acres), on alluvial fans if buried soils are encountered that might yield archeological sites, and at recorded/newly identified archeological sites. Subsurface tests will be spaced at no greater than 15 m (49.2 ft) intervals, with reduced spacing of no more than 10 m (32.8 ft) at archeological sites. Encountered sites will be tested at the Phase I level to determine potential NRHP eligibility.

County Road D38 Bridge Replacement (Site B): Project plans indicate that the project area is to encompass a 150 ft radius of the bridge. This is approximately 2.2 acres on mixed upland and Holocene alluvial landforms. Upland landforms occur in agricultural fields and alluvial landforms are covered with grass. At present, there are no known sites or potential historic resources noted in the project area and it has not been previously investigated.

BCA proposes to conduct intensive Phase I investigations of this project area using a mixture of landform modeling, pedestrian survey, and subsurface testing. Pedestrian survey will be used in areas with greater than 30% GSV, with transect intervals spaced at no more than 15 m (49.2 ft). Subsurface testing will be conducted in areas with limited GSV that have archeological potential and/or on alluvial landforms that might yield deeply buried archeological sites. Subsurface tests will be spaced at no greater than 15 m (49.2 ft) intervals, with reduced spacing of no more than 10 m (32.8 ft) at archeological sites. Encountered sites will be tested at the Phase I level to determine potential NRHP eligibility.

County Road K49 Bridge Replacement (Site C): Project plans indicate that the project area is to encompass a 150 ft radius of the bridge, which encompasses approximately 2.4 acres. This area occurs on Holocene alluvial landforms in agricultural fields. At present, there are no known sites or potential historic resources noted in the project area and it has not been previously investigated.

BCA proposes to conduct intensive Phase I investigations of this project area using a mixture of landform modeling, pedestrian survey, and subsurface testing. Pedestrian survey will be used in areas with greater than 30% GSV, with transect intervals spaced at no more than 15 m (49.2 ft). Subsurface testing will be conducted in areas with limited GSV that have archeological potential and/or on alluvial landforms that might yield deeply buried archeological sites. Subsurface tests will be spaced at no greater than 15 m (49.2 ft) intervals, with reduced spacing of no more than 10 m (32.8 ft) at archeological sites. Encountered sites will be tested at the Phase I level to determine potential NRHP eligibility.

280th Street Bridge Replacement (Site D): Project plans indicate that the project area is to encompass a 150 ft radius of the bridge. This is approximately 2.1 acres on Holocene alluvial landforms in agricultural fields. At present, there are no known sites or potential historic resources noted in the project area and it has not been previously investigated.

BCA proposes to conduct intensive Phase I investigations of this project area using a mixture of landform modeling, pedestrian survey, and subsurface testing. Pedestrian survey will be used in areas with greater than 30% GSV, with transect intervals spaced at no more than 15 m (49.2 ft).

Subsurface testing will be conducted in areas with limited GSV that have archeological potential and/or on alluvial landforms that might yield deeply buried archeological sites. Subsurface tests will be spaced at no greater than 15 m (49.2 ft) intervals, with reduced spacing of no more than 10 m (32.8 ft) at archeological sites. Encountered sites will be tested at the Phase I level to determine potential NRHP eligibility.

County Road D38 ROW Acquisitions (Site E): There are three small areas where the County plans to acquire additional ROW. These areas total about .6 acres covered with grass and trees. These areas appear to occur within drainages. Active drainages generally have low potential for archeological sites. One of the areas was previously surveyed (Thompson 1990). Because this area was surveyed before the issuance of the AIA (1999) guidelines, this ROW area will need to be re-examined. At present, there are no known sites or potential historic resources noted in the project area and it has not been previously investigated.

BCA will begin investigations of these areas using a geomorphological assessment. If it is found that these areas have potential for archeological sites, BCA will conduct pedestrian survey in areas with greater than 30% GSV, with transect intervals spaced at no more than 15 m (49.2 ft). Subsurface testing will be conducted in areas with limited GSV that have archeological potential. Subsurface tests will be spaced at no greater than 15 m (49.2 ft) intervals, with reduced spacing of no more than 10 m (32.8 ft) at archeological sites. Encountered sites will be tested at the Phase I level to determine potential NRHP eligibility.

Reporting: A project completion report will be completed for each of the projects (Sites A-E; five reports) at the close of field investigations. The reports will include descriptions of the project areas, geological background information, the results of archival research, methods used during the field investigations, and the results of the field investigations with clear recommendations concerning archeological properties. The texts will be accompanied by topographic maps, scale maps, plat maps, aerial photographs, and representative photographs of the project area generally and all encountered archeological sites.

TIME ESTIMATES AND COSTS: This cost proposal includes:

- 1) All expenses.
- 2) A complete review of archeological and historical records.
- 3) Comprehensive field investigations including extensive shovel testing or bucket augering in locations with deep site potential.
- 4) Geoarcheological assessments.
- 5) A preliminary evaluation of any archeological sites if they are encountered.
- 6) Preparation of contract completion reports that will meet or exceed the guidelines established by the Secretary of Interior and the State Historical Society of Iowa.

While this cost proposal does not include the advanced testing (Phase II) of any archeological sites that might be encountered during the investigation, it does include preliminary evaluations of all identified sites. It has been our experience that archeological sites can commonly, but not always, be properly evaluated at the Phase I level of investigation.

BCA anticipates 186 person-hours to complete these projects. This includes the time needed for archival reviews, field investigations, and report preparations. These hours are further broken down on the enclosed cost proposal sheet. The combined not-to-exceed cost for these proposals is \$12,288.15. If the projects can be completed for less than the proposed cost, we would invoice only for the actual time accrued.

BCA anticipates that one crew of two people can complete the fieldwork portion of these projects in five days, including driving time. We anticipate that 40 hours will be needed for post-field write-up, analysis, graphics, and editing for the road widening project (Site A). BCA anticipates that 56 hours will be needed for post-field write-up, analysis, graphics, and editing for the bridge replacement and ROW acquisition projects (Sites B-E). These hours are further broken down on the enclosed cost proposal sheet.

REFERENCES:

Association of Iowa Archaeologists

1999 *Guidelines for Archaeological Investigations in Iowa*. Association of Iowa Archaeologists, Iowa City.

Billeck, William T.

1985 *BROS-9097(19), a.k.a. FHWA 351630 Woodbury County Local Roads*. Project Completion Report 8(24). Office of the State Archaeologist, Iowa City, Iowa.

Molyneaux, Brian L.

1996 *Results of 1996 Phase I Cultural Resource Inventory for Proposed Grading of County Road D50 in Miller Township, Woodbury County, Iowa*. Archaeology Laboratory, University of South Dakota, Vermillion.

Thompson, Dean M.

1990 *Archeological Survey of Nine Structures in the Camp Creek Subwatershed*. Soil Conservation Service, Des Moines, Iowa.

For: Woodbury County Engineer	Bear Creek Archeology, Inc. Project: Road widening, 3 bridges, and 3 new ROWs Contractor's Proposal Worksheet	DATE: 26-Mar-15 Prepared by: B. Scott File: 5 Woodbury Co. Project
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DIRECT LABOR (DL)									
Labor Category	Level	Subcon Mgmt	Lit Rev Prefield	Data Acq Field	Data Analysis	Report Prep	Hours by Position	Hourly Rate	Direct Labor Cost
Professional Staff									
Prin Inv/GeoArc	III						0	\$ 32.50	\$ -
Prin Inv/Proj Mgr	II						0	\$ 30.00	\$ -
Prin Inv	I			40	10	72	122	\$ 27.50	\$ 3,355.00
Archeologist	III						0	\$ 22.50	\$ -
Archeologist	II						0	\$ 21.50	\$ -
Archaeologist	I						0	\$ 20.00	\$ -
Field									
Crew Chief	III						0	\$ 21.50	\$ -
Crew Chief	II						0	\$ 20.00	\$ -
Crew Chief	I						0	\$ 19.00	\$ -
Crew Person	III						0	\$ 19.00	\$ -
Crew Person (2)	II			40			40	\$ 18.00	\$ 720.00
Crew Person	II						0	\$ 17.00	\$ -
Crew Person	I						0	\$ 16.00	\$ -
Administrative									
Office Mgr	III						0	\$ 21.50	\$ -
Clerk-Typist	II						0	\$ 18.00	\$ -
Laboratory									
Director	III						0	\$ 20.00	\$ -
Crew Person	II						0	\$ 18.00	\$ -
Crew Person	I						0	\$ 16.00	\$ -
Report Preparation									
Writer/Editor	III					12	12	\$ 21.50	\$ 258.00
Digital Graphics	III					12	12	\$ 25.00	\$ 300.00
Digital Graphics	II						0	\$ 18.00	\$ -
Hours by Project Stage		0	0	80	10	96			
							Total Hrs	186	Total Dir Lab \$ \$ 4,633.00

DIRECT LABOR (DL)	TOTAL	\$4,633.00
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MATERIALS					TOTAL
Item	Quan	Unit	Unit Cost	Subtotal	
		ea		\$0.00	TOTAL \$0.00
		ea		\$0.00	
		ea		\$0.00	
		ea		\$0.00	
		ea		\$0.00	

TRAVEL				TOTAL
per diem	9 days	\$120.00	/day =	\$ 1,080.00
mileage (in G&A Overhead)				
				TOTAL \$ 1,080.00

OTHER SIGNIFICANT COSTS					TOTAL
Item	Quan	Unit	Unit Cost	Subtotal	
Giddings Corer		day	\$ 300.00	\$0.00	TOTAL \$0.00
Curation		cu ft	\$ 1,000.00	\$0.00	
RadioCarbon Dates		ea	\$ 300.00	\$0.00	
Backhoe & Oper		hr		\$0.00	
Paleobot Sample		ea	\$ 140.00	\$0.00	
Report Copies		ea		\$0.00	
Other:		ea		\$0.00	
Other:		ea		\$0.00	
Other:		ea		\$0.00	

CONSULTANTS SUBCONTRACTED				TOTAL	\$0.00	SUMMARY	
	Quan	Unit	Unit Cost	Subtotal			
Architectural Historian		hrs @		\$0.00	1	DIRECT LABOR	\$4,633.00
Geomorphologist		hrs @		\$0.00	2	OH on DL at 0.41	\$1,899.53
Paleobotanist		unit @		\$0.00	3	G & A OH at 0.75	\$3,474.75
Paleozoologist		hrs @		\$0.00	4	MATERIALS	\$0.00
Phys Anthropologist		hrs @		\$0.00	5	TRAVEL	\$1,080.00
Other:		hrs @		\$0.00	6	OTHER SIGNIF COSTS	\$0.00
Other:		hrs @		\$0.00		Subtotal	\$11,087.28
Other:		hrs @		\$0.00	7	FEE lines 1,2+3 0.12	\$1,200.87
Consultant Per Diem		days @		\$0.00	8	CONSULTANTS SUBCONT	\$0.00
Consultant Mileage		miles @		\$0.00	9	TOTAL	\$12,288.15