Washington State
Department of Transportation

SUPPLEMENTAL AGREEMENT		ORGANIZATION AND ADDRESS Dr. Anthony P. Clevenger c/o Western Transportation Institute Montana State University PO Box 174250 Bozeman, MT 59717-4250
AGREEMENT NUMBER GCA 4281 Supplement 3		SECTION/LOCATION Interstate 90 Snoqualmie Pass East
STATE ROUTE NUMBER 90	CONTROL SECTION NUMBER 1901	DESCRIPTION OF WORK This Supplement #3 will authorize and pay for development of a scope for the Wildlife Monitoring and Site Management Plan phase of the project.
REGION : SOUTH CENTRAL		

This Supplement #3 to Agreement GCA 4281 is made and entered into on the 24th day of April, 2007 between the State of Washington, Department of Transportation, acting by and through the Secretary of Transportation, by virtue of Title 47 RCW, hereinafter called the "STATE", and Western Transportation Institute/Montana State University hereinafter called the "WTI" or "Research Agency".

WHEREAS, the parties desire to further supplement AGREEMENT GCA 4281 originally executed on January 25, 2005, amended by Supplement # 1, executed on January 10, 2006 and Supplement # 2, executed on May 11, 2006.

The changes to the agreement are described as follows:

Section V – PAYMENT is revised to increase the maximum payment by the STATE from $ 67,902.00 to $78,882.00 as detailed in Exhibit B-2 Estimate of Cost attached and incorporated by this reference.

Section XXI – EXHIBITS is amended as follows:

Exhibit "B-1" Project Costs is supplemented with Exhibit "B-2" attached hereto and by this reference made a part of this AGREEMENT. Exhibit B-2 covers the additional expenses for development of a scope of work for the Wildlife Monitoring and Management Plan phase.

Exhibit "C-1" Scope of Work is supplemented with Exhibit "C-2" attached hereto and by this reference made a part of this AGREEMENT. Exhibit C-2 includes pre-task work to develop a scope of work for the subsequent phase.

All other terms and conditions if the original agreement and executed supplements shall remain in full force and effect except as modified by this Supplement #3.

IN WITNESS WHEREOF, the parties hereto have executed this AGREEMENT as of the day and year first above written.

MONTANA STATE UNIVERSITY

By: Sandra L. Swaro
SANDRA L. SWARO
Title: Director
MSU Office of Sponsored Programs
Date: 4.17.07

STATE OF WASHINGTON
DEPARTMENT OF TRANSPORTATION

By: George R. Helsinger
for
Title: Regional Administrator, Don Whitehouse
Date: April 24, 2007

APPROVED AS TO FORM:

By: [illegible]
Assistant Attorney General
Date: March 30, 2007

I-90 Snoqualmie Pass East

Agreement No. GCA-4281

Supplement 3 Exhibit B-2

Pre-Task Scope of Work for a

Wildlife Monitoring and Site Management Plan

Budget - WTI		Personnel			Other Direct Expenses			Totals
		Tony Clevenger	Jeralyn Brodowy	Total Hours/Total Costs	Travel	Operations/Communications	Minor Equipment (<5000)	Total Costs
Task #	Task Title - Hourly Cost Rates	$80.16	$49.91					
	Develop scope for the next phase; Wildlife Monitoring and Site Management Plan	120	6	126				
		$9,619.20	$299.46	$9,918.66	$ 750.00			$10,668.66
				0				
		$0.00	$0.00	$0.00				$0.00
	TOTAL HOURS	120	6	126				
	SUBTOTAL	$9,619.20	$299.46	$9,918.66	$ 750.00			$10,668.66
	Indirect Costs at 41.5%	$0.00	$0.00	$0.00	$311.25			$311.25
	Total Project Costs	$9,619.20	$299.46	$9,918.66	$ 1,061.25			$10,979.91

The hourly cost rates shown above include benefits and indirect costs at 41.5%.

Total WSDOT obligation under this AGREEMENT:

GCA 4281	Original	$37,902.60
GCA 4281	S-1	$0.00
GCA 4281	S-2	$30,000.00
GCA 4281	S-3	$10,979.91
	TOTAL	**$78,882.51**

Any reimbursement over $ 78,882.51 must be approved by written supplement.

I-90 Snoqualmie Pass East
Agreement No. GCA-4281
Supplement 3 Exhibit C-2
Pre-Task Scope of Work for a
Wildlife Monitoring and Site Management Plan

1. PURPOSE

Describe the "Pre-Task Scoping" work necessary for WTI to work with the STATE in developing an actual Scope of Work and associated Cost Estimate for the involvement of the WTI in the development and completion of a Wildlife Monitoring and Site Management Plan.

2. SERVICES TO BE PROVIDED BY WTI

The WTI shall work with the STATE to identify issues necessary to develop a Scope of Work (Scope) and Cost Estimate to meet the requirements of the STATE. The WTI shall provide the STATE with the following:

2.1. Develop a detailed Scope, which will include identifying the level of effort, and any known constraints or obstacles, for future deliverables following:

2.1.1. Draft and Final Wildlife Monitoring and Site Management Plan, which shall:

2.1.1.1. Identify the conceptual criteria to be used for assessing the effectiveness of habitat connectivity measures in the project area, which may include, but is not limited to:

2.1.1.1.1. Characteristics/attributes of the structures themselves, including site habitat conditions.

2.1.1.1.2. Indicator species, or species groups using the crossing structures.

2.1.1.1.3. A comparison of wildlife activity in the area with and without crossing structures.

2.1.1.2. Describe cost effective, practical means to evaluate the project using the criteria following:

2.1.1.2.1. Consider a range of funding scenarios and level of effort/ investment, including potential partnerships.

2.1.1.2.2. Establish standards of success.

2.1.1.2.3. Propose monitoring methods.

2.1.1.3. Develop a regular reporting and communication mechanism for findings that is coordinated among various data collection groups and stakeholders.

2.1.1.4. Describe a long-term adaptive management system to address the application of new knowledge, environmental change, and unexpected events.

2.1.2. Draft and Final Wildlife Monitoring and Site Management Plan Summary for inclusion in the project's Final Environmental Impact Statement.

2.1.3. Draft and Final Funding Opportunity Technical Memo and Matrix Outline

2.1.3.1. A short report/technical memo, including an evaluation matrix, which identifies partnering groups and funding opportunities.

2.1.4. Draft and Final Process for Research Control(s) Assistance Plan

2.1.4.1. Identifies potential partnership agencies and educational institutions, such as Central Washington University (CWU), for research opportunities, and controls and processes.

2.1.5. Draft and Final Grant Partnership Plan and Matrix Outline

2.1.5.1. Investigates grant opportunities that would supplement the STATE's monitoring budget shortfall, to include a partnership opportunity and evaluation matrix.

2.1.6. Safety Plan, if field work is required, in order to perform any of the work identified in the Scope.

2.1.7. Participation in the pre-task scoping effort, which shall include:

2.1.7.1. Conference calls, as necessary, with STATE's Management Team to discuss or negotiate this work.

2.1.7.2. Up to four full work-day meetings. Up to two WTI staff members may be required to participate in the pre-task scoping meetings.

2.1.7.2.1. Up to two of the meetings will be held with the STATE in the STATE's project office in Yakima, Washington.

2.1.7.2.2. One of the meetings will be held with the STATE and other agencies in Cle Elum, Washington.

2.1.7.2.3. One of the meetings will be held with the STATE, other agencies, and/or interested parties in Ellensburg, Washington.

3. SERVICES TO BE PROVIDED BY THE STATE

3.1. The STATE will provide the following:

3.1.1. Access to STATE staff in order to respond to the WTI's inquiries.

3.1.2. Arrange meetings with the WTI and/or other interested parties on an as-needed basis.

4. ROLES, RESPONSIBILITIES, AND EXPECTATIONS

4.1. The outcome of this pre-task scoping effort will be to:

4.1.1. Identify project team members.

4.1.2. Outline the responsibilities of the project team members and any support groups.

4.1.3. Agree to the process for negotiating the pre-task scoping and Scope phases.

4.1.4. Determine a preliminary schedule.

4.1.5. Determine the WTI's expected level of effort.

4.1.6. Outline the primary deliverables.

4.1.7. Gather background information.

4.1.8. Identify any known constraints or obstacles to/for the task.

5. SCHEDULE

5.1. The WTI shall develop a draft Scope, preliminary cost estimate, and schedule that meets the STATE's requirements within forty-five (45) calendar days of receiving pre-task scoping notice to proceed.

Exhibit C-2 APPENDIX A
Background Information

1. Monitoring will be an important part of assessing the effectiveness of the project's connectivity improvements, and must be conducted to
   - **1.1.** Characterize baseline conditions;
   - **1.2.** Assess wildlife use after the project has been completed; and
   - **1.3.** Implement adaptive management for future phases of the project.
2. Important baseline data will build on existing data from project-related studies, as well as U.S. Forest Service and Washington State Department of Fish and Wildlife (WDFW) data. For example, winter snow tracking, motion-activated camera surveys, track pits, and smoke plates have been used in the project area to characterize wildlife use. Other methods that have been employed along Washington State highways including hair snag surveys and tracking radio-collared animals (e.g., WDFW mountain lion radiotelemetry study, Koehler 2006).
3. In their July 2006 Recommendation Package, the project's Mitigation Development Team recommended that the STATE conduct wildlife studies involving all the linkage zones in the project area, focusing on the identified Connectivity Enhancement Areas.
4. Prior to improvements being in place, performance monitoring should be determined and measured at the new connectivity structures. Research has shown that some species may use structures right away, but several years may be needed for most species to discover and begin using a new structure. Because the STATE will likely implement the project in phases over the course of many years, early monitoring results (adaptive management) will likely be useful in refining the design and implementation of later phases.
5. Because of the substantial public investment proposed by the project, it is important to establish measures of structure performance prior to construction, and the following will be needed:
   - **5.1.** A list of recommended performance measures and/ or thresholds to help objectively evaluate the structures to be built during the first phase of construction (Hyak [Milepost (MP) 55.1] to Keechelus Dam [MP 60.9]).
   - **5.2.** Recommendations for modifying structure designs in subsequent construction phases based on adaptive management principles if those structures prove to be less effective than anticipated.