APPLICATION FOR GRANT FUNDING

STEP 1 – Applicant and Partner Information

Primary Applicant (Required):
Name of principle individual: David Corcoran
Name of agency\entity: Powell County
Street: 409 Missouri Ave, Ste 101
City: Deer Lodge
County: Powell
State: MT
Zip Code: 59722
Contact email address: dcorcoran@powellcountymt.gov
Contact fax address: 406-846-3891
Contact phone: 406-846-9711
Organizational Unit (if applicable)
Department: Planning
Division:

Other Project Partners – complete for each partner (copy box as needed):
Name of contact: Chris Laity
Name of Agency: Great West Engineering
Street: PO Box 4817
City: Helena
County: Lewis & Clark
State: Montana
Zip Code: 59604
Contact email address: claity@greatwesteng.com
Contact phone: 406-449-8627

Date Submitted (Required):   2/14/14   **Date Received by State:**

Descriptive Title of Applicant's Project (Required):

A Land Use Inventory and Road Maintenance Classification for Powell County

STEP 2 – Relevance and Public Benefit

The purpose of the Montana Land Information act is to develop a standardized, sustainable method to collect, maintain, and disseminate information in digital formats about the natural and artificial land characteristics of Montana.

In FY 2014, Powell County applied for and received a grant from the Montana Land Information Advisory Committee to do a road asset inventory, inventorying all of our road signs, cattle guards, culverts, and bridges while also developing a road right of way polygon layer. This application seeks to expand on that effort by using that data as well as new data to create a land use inventory and functional/maintenance classification scheme.

The county will inventory land use within the county and use that data to help develop a functional and maintenance classification scheme for the county roadway system. Currently, the county land use map is based on ownership and different types of agricultural and natural resource lands without specifically recognizing commercial and residential uses. A windshield land use inventory will allow for the creation of a more accurate land use data layer. This will both aid in the county's next growth policy update and allow the county to identify major traffic generators to help in the update of our functional classification scheme. The county's maintenance classification will also be made digital and expanded with other relevant information.

In support of MLIA priority B2.2, "*Localized GIS solutions that demonstrate the value of GIS in improving the quality of life for Montana citizens and build grass roots support for location based services,*" the creation of a county land use geodatabase and road functional and maintenance classification scheme will allow for better prioritization and usage of limited county funds, aid in information sharing with state and federal agencies when seeking funding, help the county's consulting engineer to provide a higher level of service, help county commissioners and road crews to make objective decisions with road funding resources, and offer the public with a more extensive mapping resource. The land use inventory will also be useful in the county's upcoming Growth Policy revision.

STEP 3 – Scope of Work Narrative

Goal #1: Build a county-wide geodatabase that inventories land use throughout the county.

Objectives:
- Develop land use categories.
- Using a laptop with ArcGIS Basic, do a county-wide windshield survey to inventory land use.

Tasks:
1. Acquire a laptop computer with Microsoft Excel and ArcGIS. This allows for more efficient field data collection by allowing an ArcMap session to be open while driving. The county has an ArcGIS Basic license available already to be installed on a laptop.
2. Build the land use data layer. The layer will inventory the following information on a parcel-by-parcel level:
    o Primary Land Use
    o Secondary Land Use
    o Ownership
    o Geocode (to join the data to the statewide parcel framework)
    o Zoning District
    o Land Cover
    o Notes
3. Perform a windshield survey to collect land use data in the field using the GPS unit and laptop.
4. Post-process the collected land use data and join the data to existing parcel data to provide more parcel-level detail.

Goal #2: Establish a roadway functional classification and maintenance scheme based on the existing road right of way geodatabase, 2011 Capital Improvements Plan, and the new land use geodatabase.

Objectives:
- Based on identified land uses, update and digitize the existing functional and maintenance classification scheme created in the 2011 Capital Improvements Plan.
- Expand this scheme to include more information about how the road is actually used.

Tasks:
1. Use collected land use data to identify major traffic generators.

2. Identify any new or changed major traffic generators and how they relate to the existing functional classification scheme.
3. Update the existing functional classification scheme to accommodate any new findings.
4. Develop functional and maintenance classification data layer based on road segment (the current scheme is based on the entire road, which sometimes provides incomplete information) that will include the following attributes:
    o Road Name
    o Road Surface Type
    o Road Classification
    o Maintenance Entity
    o Maintenance Classification (Powell County has five maintenance classifications- A, B, C, D, and Z)
    o Year of last major work on the road segment
    o Winter Maintenance status of the road
    o School bus routes
    o Necessity of road for emergency access
    o ObjectID tied to the master county roads layer to allow for easy joining.
    o Other attributes determined to be useful after consulting with Great West and the county road crews.

Project Schedule

Date	Activity
July 2014	- Receipt of MLIA Funds - Acquire Hardware and Software - Develop Land Use Data Layer
August 2014 – October 2014	- Conduct windshield survey of county land uses.
November 2014	- Process land use data points.
December 2014 – January 2015	- Update County Functional Classification Scheme
February 2015 – July 2015	- Develop County Functional Classification/Road Maintenance Scheme Data Layer

STEP 4 – Project Management and Organizational Capability Narrative

This project will be carried out by the Powell County Planning Department by David Corcoran, Environmental/GIS Technician and Brian P. Bender, Planning Director. The Planning Department will work in conjunction with Great West Engineering to help generate the functional classification/maintenance data layer.

The majority of the work for this project will be done by David Corcoran. He is a graduate of the University of Arizona with an M.S. in Planning with coursework in land use and transportation planning and the University of Wyoming with a B.S. in Geography with GIS emphasis. David has five years of GIS experience and three years of planning experience. He has performed land use inventories under contract work for the Arizona Department of Housing. In FY 2014, he was responsible for Powell County's MLIA grant to inventory road signs, culverts, bridges, and cattle guards and develop a road right of way polygon layer.

Brian Bender will provide oversight and assist with the administration of grant funds. Mr. Bender is a member of the American Institute of Certified Planners and the Planning Director of Powell County, Montana since January 2011. Mr. Bender has over thirteen years of experience collaborating with elected and appointed officials in both rural and urban communities on zoning enforcement, plan making and implementation, floodplain administration, and citizen participation.

Chris Laity and Great West Engineering, the county's on-call engineering consultant, will provide information and guidance for the development of a functional classification and maintenance scheme.

STEP 5 – Budget Justification Narrative and Tables

This project is expected to cost $21,095, of which Powell County will be contributing $5,225 in personnel and contractual expenses as in kind match funding. The County requests $15,870 in MLIA funding for the remaining project expenses.

Personnel

Powell County staff will develop the GIS data layers, perform the windshield survey, update the functional classification, and create the functional classification/maintenance data layer. David Corcoran will spend 600 hours working on these tasks. This project will be carried out under the guidance of Planning Director Brian Bender. A portion of the hours contributed at normal individual wage rates are considered to be an in-kind contribution for Powell County.

Travel

Powell County anticipates approximately 4,000 miles of travel to traverse the entire county road network at the current federal mileage rate of $0.56 dollars per mile.

Equipment

A laptop computer with Microsoft Excel ($1,500) and power inverter ($50) will allow for easier in-data field collection and note taking during the windshield survey.

Contractual

Great West Engineering will contribute 16 hours of support at a contractually negotiated rate of $130 per hour. Great West will review the development of the functional classification data layer to ensure its maximum benefit to them as Powell County's on-call engineers and to the county road foremen.

Long Term Funding

Once the initial data is developed and placed into digital format, incremental updates will be low cost and easy for the county to carry out. County development certificates and conditional use permits will make it possible to keep an up to date land use data layer. The county GIS office will work with the road foremen and Great West engineering to ensure that any changes to the maintenance status of roads are recorded.

Applicant budget summary

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Category	MLIA Share	Applicant Share	Other Share	Total
a. Personnel				
David Corcoran	$10,000	$2,116		$12,116
Brian Bender		$800		$800
a.1 Fringe Benefits				
David Corcoran		$2,065		$2,065
Brian Bender		$244		$244
b. Travel	$2,240			$2,240
c. Equipment	$1,550			$1,550
d. Supplies				
e. Contractual	$2,080			$2,080
f. Other				
Totals	$15,870	$5,225		**$21,095**

Project Partner budget summary (provide a separate budget summary for each partner (including subcontracts). See page 6 for a definition of a project partner.

Category	Great West Engineering		Total
a. Personnel	$2,080		$2,080
a.1 Fringe Benefits			
b. Travel			
c. Equipment			
d. Supplies			
e. Contractual			
f. Other			
Totals	**$2,080**		$2,080

STEP 6 – Statements of Support

Statements of support must be included from any party listed as a project partner (see page six for the definition of a project partner). DO NOT include other statements of support as they will not be evaluated.

*If the proposal proposes to support a particular MSDI framework layer(s), applicant <u>must</u> include a letter of support from the framework steward(s). See mandatory criteria # 3.

STEP 7 – Renewable Grant Accountability Narrative

If the applicant received a FY2014 MLIA Grant for the same project or purpose, applicant must file a report documenting the progress made toward meeting the requirements of that grant. The report must include a status report on all tasks or deliverables included in the grant.

STEP 8 – Sign the Application

Authorizing Statement
I hereby certify that the information and all statements in this application are true, complete and accurate to the best of my knowledge and that the project or activity complies with all applicable state, local and federal laws and regulations.
I further certify that this project will comply with applicable statutory and regulatory standards.
I further certify that I am (by my signature) authorized to enter into a binding agreement with the Montana State Library to obtain a grant if this application receives approval.

_____

Name (print or type)

_____

Title (print or type

_____

Signature and Title of Authorized Representative(s) of Public Entity Applicant

Date_____