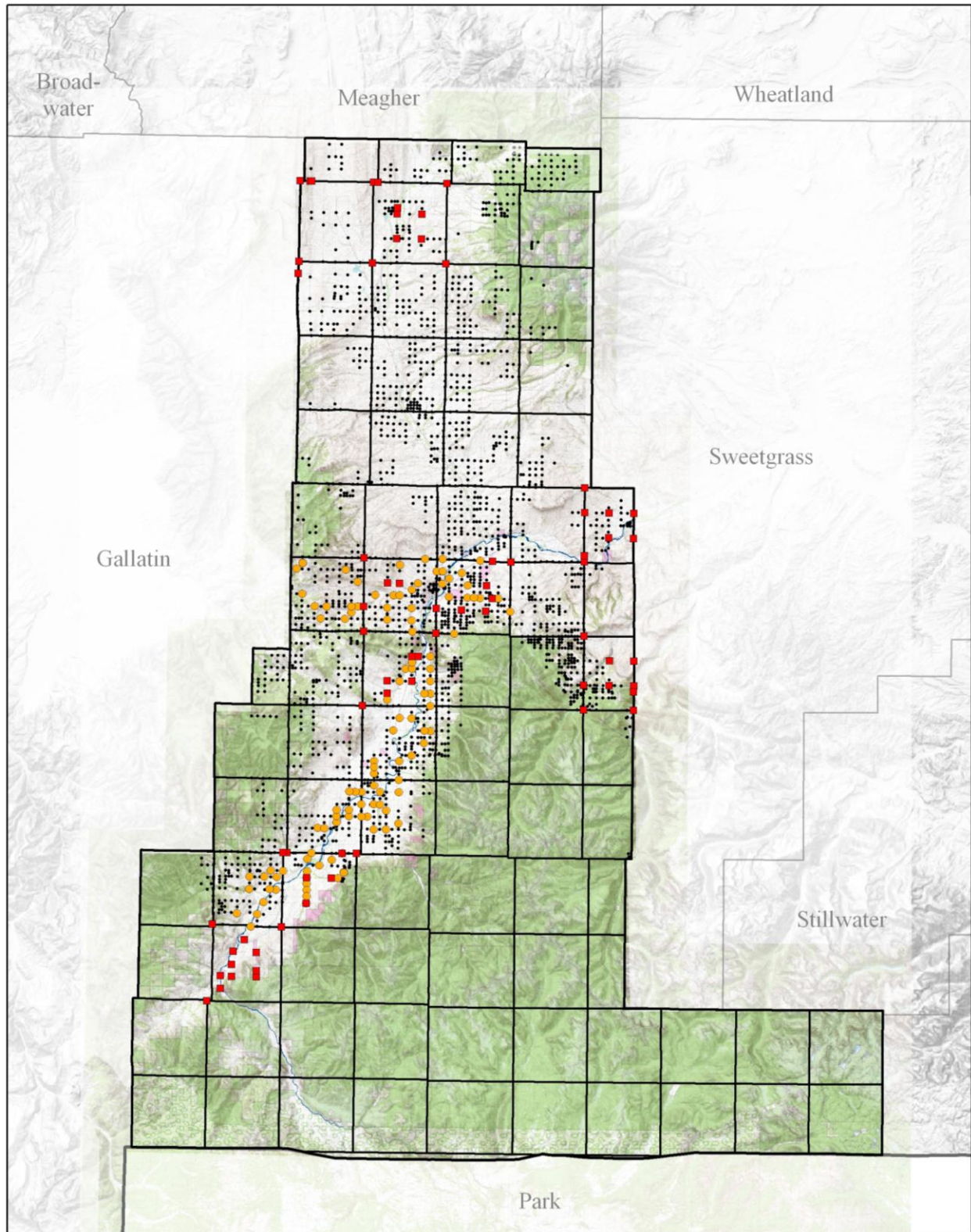


# GRANT APPLICATION MONTANA LAND INFORMATION ACT FISCAL YEAR 2014



*Submitted By: Park County, Montana*

THIS PAGE INTENTIONALLY BLANK

## **APPLICANT INFORMATION**

### **Applicant: Park County, Montana- Local Government**

Contact: Erica Hoffman, GIS/IT Manager

Agency: Park County, Montana- Local Government

Mailing Address: 414 East Callender

City: Livingston

County: Park

State: Montana

Zip: 59047

Contact Email: [ehoffman@parkcounty.org](mailto:ehoffman@parkcounty.org)

Contact Fax: (406)222-4109

Contact Telephone : (406)222-4197

Department : GIS/IT

## **PARTICIPATING PARTNER**

Principle Contact: William C. Grayson, Land Surveyor

Agency: U.S.D.A. Bureau of Land Management

Mailing Address: 5001 Southgate Drive, P.O. Box 36800

City: Billings

County: Yellowstone

State: Montana

Zip: 59107

Contact Email: [wgrayson@blm.gov](mailto:wgrayson@blm.gov)

Contact Telephone (406) 896-5009

## **PARTICIPATING PARTNER**

Principle Contact: Stewart Kirkpatrick, GIS Bureau Chief

Agency: MT DOA, Information Technology Services Division

Mailing Address: Room 229, Mitchell Building, 125 North Roberts

City: Helena

County: Lewis and Clark

State: Montana

Zip: 59620

Contact Email: [skirkpatrick@mt.gov](mailto:skirkpatrick@mt.gov)

Contact Telephone: (406) 444-2700

## **PARTICIPATING PARTNER**

Principle Contact: Ed Meese, City Manager

Agency: City of Livingston, Montana

Mailing Address: 414 Calender

City: Livingston

County: Park

State: Montana

Zip: 59047

Contact Email: [emeese@livingstonmontana.org](mailto:emeese@livingstonmontana.org)

Contact Telephone: (406)222-6000

## **ADDITIONAL PARTICIPATING PARTNERS**

### Local Surveying Community

The Local Surveying Community will benefit from contracts with Park County and available Public Land Survey System (PLSS) control data collected and uploaded to the Montana Control Point Database. In addition, corner records will be filed and kept in the Clerk and Recorder's Office for future reference by the public and Surveyors/Engineers needing coordinate references.

## DATE SUBMITTED

Date Submitted February 15, 2013

## DATE RECEIVED

---

## DESCRIPTIVE TITLE OF PROJECT

Enhancement of the Bureau of Land Management's (BLM) Geographic Coordinate Data Base (GCDB) through Control Surveys, supplementing the Geodetic Control Theme as a means for adjusting the Cadastral Theme and the Administrative Boundary Theme within Park County, Montana and Southwestern Montana. This Geodetic Control Theme Project is year 2 of a 10 year phased project that builds upon previously collected statewide control and the FY 2013 Park County Control Points collected and submitted to the BLM GCDB.

## RELEVANCE AND PUBLIC BENEFIT

This project closely aligns with the following Land Plan Priorities as listed in the 2013/2014 Montana Land Information Plan:

### **B1: MSDI Data Partner Support**

***B1.1 MSDI data partners contributing to statewide framework data may apply for grants according to the published MLIA grant application process.***

***B1.2 Those data partners must work in advance with the MSDI Theme Stewards to provide data in common formats that promote data integrations.***

Enhancement of geodetic control within Montana began in the 1990's with a core group of Federal, State, Local, Tribal and private partners. Significant efforts were made in the 2006-2009 timeframe with the Montana Control Point Database (MCDB) becoming publicly available on-line, providing Montana's land surveyors with a means to store and manage their geodetic and mapping control that is not part of the National Geodetic Survey's (NGS) database, and to provide the public with a free access to reliable, up to date geodetic and mapping control.

In 2008, 111 control points in ten townships were collected in Park County. This data was sent to the Bureau of Land Management (BLM), incorporated into the GCDB and the PLSS adjusted. Subsequently, the Park County Parcel Layer was adjusted to the GCDB in 2009. Unfortunately, the additional control did not provide the level of adjustment as was anticipated. The Parcel Layer as adjusted to the GCDB, is still off by 100+ feet in many areas, including the City of Livingston and other populated areas. In 2010, the BLM, through ARRA funding, attempted to locate 70 additional corners. Of those 70, they were successful in collecting 46. To date, geodetic adjustments have not been significant enough to benefit Park County, and cadastral adjustments based on the GCDB continues to have substantial positional error.

Through FY2013 MLIA Grant funding, Park County collected 96 control points in three Townships. This control point data has been sent to the BLM for review, and will be incorporated into the GCDB and MCDB. Post-processing of the collected control points is still underway, therefore we are unable to report on the corrected positional shift that will occur. However, review of the collected points relative to the existing GCDB show point locations differing by as much as 200 feet. Park County is confident that the adjusted GCDB and cadastral data will be significantly more useful to all users.

Park County is committed to the Cadastral Registration and Geodetic Control refinement with the project goal to meet an accuracy level of 5-10 feet (3-5 meters) countywide within the 10 year project. This Project is very closely aligned with the Land Plan Priorities as described in the 2013/2014 Montana Land Information Plan, Priorities A2. Park

County will continue to work closely with the Gallatin County GIS Department on areas of mutual concern, and will coordinate with other counties, as needed, on the collection process. The deliverables for this Project consists of coordinate collection within Park County, Montana, that will, through its addition to the BLM GCDB, refine the accuracy of the Cadastral Theme for Federal, State, Local and Private interests.

Specifically, the Project will address these action items that directly benefit both public and private entities:

- Advance the collection of the Geodetic Control Theme throughout Park County, Montana
  - Collection of coordinate data for the BLM GCDB
  - Locate, collect, photograph, document and preserve control points
  - Data will be collected in a method that validates accuracy and integrity by Registered Land Surveyors
  - State and Federal data collection standards strictly followed
- Refine the accuracy of the Cadastral Theme for Federal, State, Local and Private interests
  - Adjust a completed and maintained cadastral layer to useful levels of accuracy
  - Leverage an existing commitment of funds and maintenance personnel in Park County
  - Prioritize collection areas based on population, degree of error, and specific needs
  - Work with the Montana Base Map Service Center to integrate updates
- Refine the accuracy of the Administrative Boundaries Theme for Federal, State, Local and Private interests
  - Maintain Administrative boundaries for public and private consumption
  - Provide updated Administrative Boundaries to the US Census Bureau
  - Research and modify Themes based on public and private feed-back
- Establish collaborative partnerships between the GIS and Surveying Communities in Montana
  - Data will be made available to all coordinate reference users
  - Enhances the usefulness of GIS data to the non-GIS professional
  - Demonstrates the connectivity of Geodetic Control from local surveyors with GIS and Cadastral data
  - Engage local municipalities and private entities in the collection and refinement of control data
  - Develop and upload control to the Montana Control Point Database

## **SCOPE OF WORK**

Park County has developed a long-term strategic plan that will leverage MLIA funds and establish the internal and external partnerships necessary to enhance the Geodetic Control Theme. This will be accomplished by working with internal departments, Registered Land Surveyors, the BLM and the City of Livingston in a joint GCDB Accuracy Enhancement Plan.

Park County GIS is committed to maintaining adjustments to the Cadastral and Administrative Boundaries themes as new GCDB Control Surveys are completed and integrated into the Geodetic Control Theme.

Phase I- Year 1 work began in Fiscal Year 2013 and will be completed in Phase 1- Year 5, Fiscal Year 2018. Phase II (Fiscal Years 2019-2023) will target areas that need additional control due to unacceptable control shift, collecting points that may, due to terrain or other circumstances, be more difficult to obtain, or require complete re-monumentation. Prioritization will be in areas of greater population and/or development. The Phase II collection prioritization will depend heavily on the results of Phase I correction.

Phase II will also leverage public and private partnerships that are created through Phase I, and will include, if possible, any USDA Forest Service, National Park Service or other data that have been discovered through the partnership process.

# GOALS, OBJECTIVES AND TASKS

## Involve Local Surveyors in the Process and Generate Project Buy-In

### ■ Develop a Pre-Qualified List of Local Registered Land Surveyors

Park County released a Request for Qualifications (RFQ) for Land Surveying Services in June 2012 in order to develop a pre-qualified list for Land Surveying Services. Park County utilized guidelines and SOP's developed by Park County, Montana during the pre-qualification process in order to 1) maintain consistency with Park County collection standards that have a proven track record, and 2) to eliminate dual standards and requirements, where possible, on the surveying community.

Evaluation of Responses, Ranking of Firm, and Selection of two firms took place on August 2, 2012. This pre-qualified list is expected to last throughout the remainder of Phase I of the overall project plan. Park County does, however, reserve the right to release additional RFQ's if need arises. For Phase II, Park County will re-evaluate the County's SOP's, determine the availability of the two pre-qualified firms, and make a determination whether there is need to re-release an RFQ,

## Develop an Overall Geographic Plan

### ■ Divide the Geographic Areas into Manageable Blocks

Park County contains 82 Townships (or partial Townships), with roughly 24 Townships comprised of Federal Land. In 2008, control points were collected in 10 Townships, primarily in the I-90 and U.S. Highway 89 corridor. (Figure 1). The 2010 BLM ARRA funded control point collection project provided an additional 46 corners located in 12 Townships (Figure 2). The 2008 PLSS adjustment netted only minor geodetic corrections in Park County. The 2010 GCDB data and adjusted PLSS was released in 2012 and while some positive adjustment was expected, Park County will require additional control point acquisition in order to achieve the desired accuracy level of 3-5 meters.

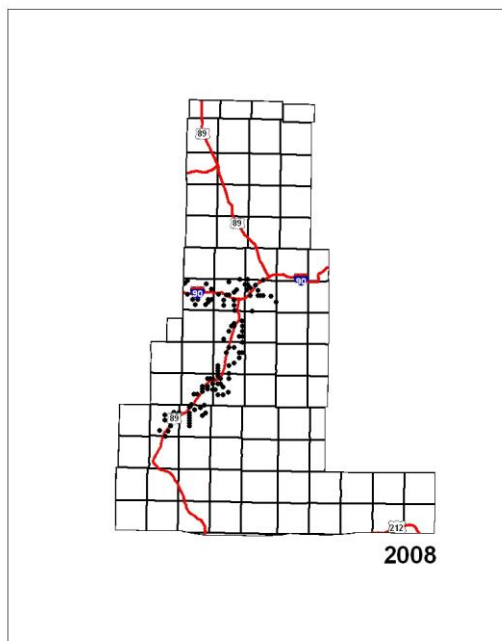


Figure 1.

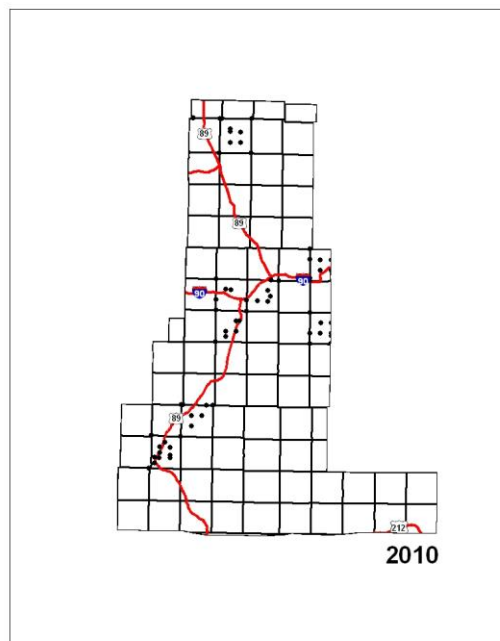


Figure 2.

Figure 3 displays the Phase I Geodetic Control Theme Project geographic areas that are proposed for Fiscal Years 2013 through 2018. Geographic areas are color coded by the Fiscal Years projected for the duration of this Phase. 96 Control Points were collected in FY2013 (Figure 5). In January, 2013, a master spreadsheet was submitted to the BLM for processing and to the Montana State Library for inclusion in the Montana Control Point Database. Preliminary review of the collected data indicates that the collection



methodology, recordation process, and results met the standards defined by the BLM.

Figure 4 indicates the geographic areas that have historically proven to exhibit the largest Cadastral Theme errors in the past. Again, the geographic areas are color coded by Fiscal Year. These, coincidentally, are the most populated and developed areas. Areas scheduled for the Phase II Geodetic Control Theme Project have been selected based on the need to further refine geodetic control in these developed areas. Phase II project areas may be adjusted after Phase I is completed and reviewed. Park County will ensure that Phase II data collection will reflect needs based on discovery during Phase I.

Jurisdictional areas impacted by this project include land administered by the Gallatin National Forest, BLM, National Park Service, State of Montana and Park County, as well as the Cities of Livingston and Clyde Park and communities of Wilsall, Emigrant, Pray, Gardiner and Cooke City.

This Fiscal Year Project Plan covers FY 2014 in Phase 1 of the overall Geodetic Control Theme Project, which is part 2 of a 6-year Project in the overall 10-year life cycle. This fiscal year project will focus on the northwest portion of Park County, including the towns of Clyde Park and Wilsall, which have a significant shift in the cadastral data.

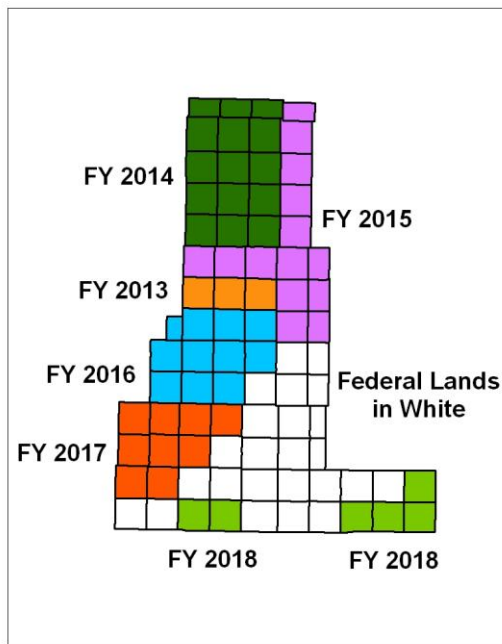


Figure 3.

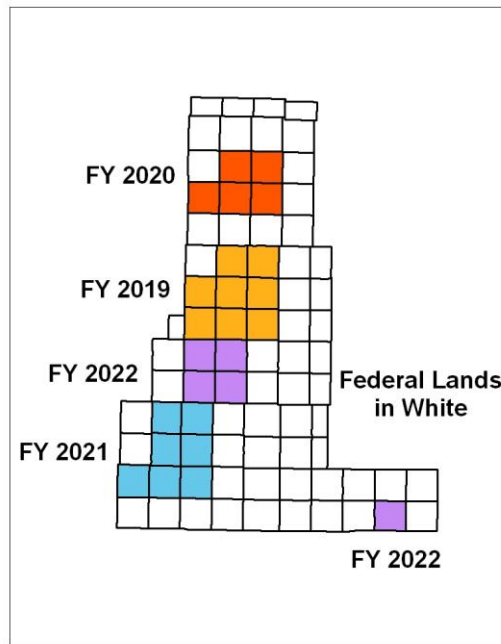


Figure 4.

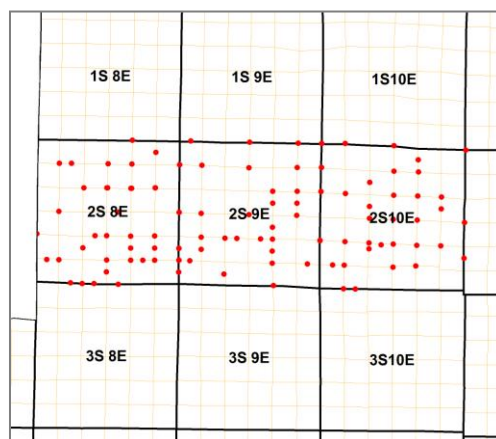


Figure 5.

## Prioritize Target Control

### ■ Devise a 1st, 2nd and 3rd Choice Control Point Plan for the Field

Meetings between representatives from the Base Map Service Center, the BLM, City of Livingston, the Surveyor, and Park County will examine existing cadastral shifting in the project area and weigh that against existing control already collected for the GCDB. This pre-planning is intended to select areas that will need additional control to make the most effective use of existing points and provide the

necessary adjustment nodes, consequently, pulling the GCDB into better alignment.

## **Project Maps Created**

### **■ Corner Records Maps and Control Point Plan Maps for Surveyors Printed**

Previous survey points and existing BLM GCDB points will be compiled into an acceptable format that can be used to create detailed township map pages. These individual map pages will be reviewed for correctness by the project representatives and used by the contractor to provide cost estimates.

## **Create a Contractor Scope of Work**

### **■ Approve Legal Contract(s) Between Surveyor(s) and Park County**

Following the legal process of contracting, Park County will negotiate fees and services with the selected surveying contractor and submit for approval through a County Commission public meeting.

Emphasis will be placed on efficiency and accuracy in the field and collecting the maximum number of points for the budget dollars. A hard cost estimate will be reviewed by the selected contractor and the best price selected with a not to exceed amount specified.

## **Field Geodetic Control Surveying**

### **■ Conduct the Field Control Point Collection Throughout the Project Area**

This will be performed by a Registered Land Surveyor using Geodetic Control Processing with a positional accuracy statement for each point. Field notes and Corner Records re-established where applicable will be submitted, with any necessary corner records recorded with the Clerk and Recorder. Standards and Guidelines for Cadastral Surveying from the BLM will be followed. Control points will be entered into the State Survey and Mapping Control (SUMAC) database template and submitted to the Montana Control Point Database.

## **Upload of New MSDI Data**

### **■ Submittal of Data to BLM and the Base Map Service Center**

Control Surveys will be submitted to BLM for review and acceptance by BLM staff. Field maps will be printed for BLM review and geographic position reference. Refinement of deliverables will be made by Park County, or Park County's Contracted Registered Land Surveyor, per any BLM recommendations. GCDB geodetic control adjustment will be conducted within the timeframe of the BLM and BMSC resulting in readjusted township PLSS data.

## **Update Dependant Themes**

### **■ Adjustment of Park County Cadastral Theme to the New GCDB**

The Park County Cadastral will be adjusted using the new GCDB and PLSS. Additional cadastral readjustment by a parcel editing expert may be necessary, at which time Park County will confer with the BLM and the Cadastral Theme Lead.

### **■ Adjustment of Park County Administrative Boundaries Theme to the New GCDB**

After the Park County Cadastral Theme is adjusted to the new GCDB, Park County will perform the same adjustment to all Park County Administrative Boundaries that are based on the Cadastral Theme. Cadastral Theme updates and Administrative Boundaries updates will be submitted to the BMSC. Modifications to registered data within the Montana GIS Portal will be submitted. Park County Administrative Boundary updates will be sent to the U.S. Census Bureau for future updates to their records.

## **PROJECT SCHEDULE**

Each Fiscal Year Control Survey overlaps calendar years, however, the Fiscal Year in which the first Task begins is considered the Fiscal Year for that Control Survey.

The Timeline for each Fiscal Year Project within Phase I and Phase II, will likely follow the same schedule barring any unforeseen weather situations.

## **PROJECT MANAGEMENT AND ORGANIZATIONAL CAPABILITY**

The mission statement of the Park County and City of Livingston GIS Department reads as follows:

*“The goal of the GIS department is to provide City and County officials, departments, local businesses, other agencies, and the public*

*accurate and reliable geographic information through responsive and innovative GIS services. Create and maintain*

*current, consistent and complete geospatial data supporting efficient operations and informed decision making.*

Erica Hoffman, GIS/IT Manager, – Mrs. Hoffman will oversee all activities conducted on this project and will provide the direct management of other staff from Park County and City of Livingston. Mrs. Hoffman has 7 years of GIS experience and a BS from Montana State University in Geography. Mrs. Hoffman is Park County and City of Livingston’s IT Manager as well and will be in charge of all deliverables to the BLM or the Base Map Service Center.

Julie Brown Sendra, GIS Analyst-GISP – Mrs. Sendra has been involved in all phases of the Geodetic Control Theme project during FY2013. Mrs. Sendra, has assembled the data set of control points collected by the BLM ARRA funded project, the Montana Control Point Database and all recorded corner points that have been collected by the Registered Surveyors in the Park County Clerk and Recorder’s office. Julie Sendra has a proven record of implementing projects similar in scope and longevity.

Registered Land Surveyors - The following firms were selected in the top two from a released Call for Land Surveying Services RFQ in June, 2012 and are on the Park County’s pre-qualified list. At least one, if not both of these firms will be involved in this project:

CTA Architects Engineers  
Mueller Consulting Land Surveyors

## **BUDGET JUSTIFICATION**

Park County and City of Livingston has estimated 10 years for completion of Phase I and Phase II of this project. In-kind contributions consist of staff time and budgeted contract funds for this project. Costs associated with the project are mainly personnel needed to plan, research and review fieldwork, as well as the analytical GIS adjustment of the dependant GIS themes. Current hourly rates for salaries and fringe benefits were adjusted upward by about 4% annually to account for the probable salaries that would be in effect at the time each forecasted project Phase begins. A detailed budget table by Fiscal Year showing the estimated costs for all categories is provided in this section.

**Salaries and Wages:** Personnel from the Park County and City of Livingston Geographic Information Systems Department will be the only staff required for these project phases.

**Fringe Benefits:** The amount assigned to fringe benefits is 31.7% of the salaries and wages of County employees. These include health and unemployment insurance, workers compensation, FICA and Medicare and retirement.

**Travel:** No travel costs are anticipated. Travel costs by BMSC and BLM staff will be considered in-kind.

**Equipment:** No equipment costs are anticipated. Existing hardware/software will be utilized.

**Supplies:** Supplies include minor office incidentals and plotting supplies for field Survey plots, and Certified Mail postage costs.

**Contracted Services:** Professional contract services provided by Registered Land Surveyors will be paid for the Control Surveys. Contracts will be written and administered by Park County based on a submitted Scope of Work with a not to exceed amount for time and materials.

**Other:** These costs include the Grants Administration fees which are calculated at 5% of the total grant funds. These funds are being provided as matching funds and will help ensure adequate grant reporting for Federal, State and Park County administrative requirements. Also included in ‘Other’ are charges for public notices in the newspaper as required for County Requests for Qualifications.

**FISCAL YEAR 2013 ACTUAL BUDGET SUMMARY – PHASE I-Year I \***

Total Expended by Park County = \$10,000.00

Total MLIA Share = \$20,000.00

Total = \$30,000.00

\* See Fiscal Year 2013 Status Report for a detailed summary of expenditures for FY2013.

**FISCAL YEAR 2014-2023 PROJECTED BUDGET SUMMARY**

**Fiscal Year**  
**2014-Phase1**

<b>CATEGORY</b>	<b>PARK CNTY SHARE</b>	<b>MLIA SHARE</b>	<b>OTHER SHARE</b>	<b>TOTAL</b>
<b>1.SALARIES/WAGES</b>	\$3012	\$0	\$0	\$3012
<b>2. FRINGE</b>	\$933	\$0	\$0	\$933
<b>BENEFITS</b>				
<b>3. TRAVEL</b>	\$0	\$0	\$0	\$0
<b>4. EQUIPMENT</b>	\$0	\$0	\$0	\$0
<b>5. SUPPLIES</b>	\$650	\$0	\$0	\$650
<b>6. CONTRACTED</b>	\$4,405	\$20,000	\$0	\$24,405
<b>7. OTHER</b>	\$1000	\$0	\$0	\$1000
<b>TOTAL \$</b>	<b>\$10,000</b>	<b>\$20,000</b>	<b>\$0</b>	<b>\$30,000</b>

**Fiscal Year**  
**2015-Phase1**

<b>CATEGORY</b>	<b>PARK CNTY SHARE</b>	<b>MLIA SHARE</b>	<b>OTHER SHARE</b>	<b>TOTAL</b>
<b>1.SALARIES/WAGES</b>	\$3,132	\$0	\$0	\$3,132
<b>2. FRINGE</b>	\$992	\$0	\$0	\$992
<b>BENEFITS</b>				
<b>3. TRAVEL</b>	\$0	\$0	\$0	\$0
<b>4. EQUIPMENT</b>	\$0	\$0	\$0	\$0
<b>5. SUPPLIES</b>	\$650	\$0	\$0	\$650
<b>6. CONTRACTED</b>	\$4,226	\$20,000	\$0	\$24,226
<b>7. OTHER</b>	\$1000	\$0	\$0	\$1000
<b>TOTAL \$</b>	<b>\$10,000</b>	<b>\$20,000</b>	<b>\$0</b>	<b>\$30,000</b>

**Fiscal Year**  
**2016-Phase1**

<b>CATEGORY</b>	<b>PARK CNTY SHARE</b>	<b>MLIA SHARE</b>	<b>OTHER SHARE</b>	<b>TOTAL</b>
<b>1.SALARIES/WAGES</b>	\$3,257	\$0	\$0	\$3,257
<b>2. FRINGE</b>	\$1,032	\$0	\$0	\$1,032
<b>BENEFITS</b>				
<b>3. TRAVEL</b>	\$0	\$0	\$0	\$0
<b>4. EQUIPMENT</b>	\$0	\$0	\$0	\$0
<b>5. SUPPLIES</b>	\$650	\$0	\$0	\$650
<b>6. CONTRACTED</b>	\$4,061	\$20,000	\$0	\$24,061
<b>7. OTHER</b>	\$1000	\$0	\$0	\$1000
<b>TOTAL \$</b>	\$10,000	\$20,000	\$0	\$30,000

**Fiscal Year**  
**2017-Phase 1**

<b>CATEGORY</b>	<b>PARK CNTY SHARE</b>	<b>MLIA SHARE</b>	<b>OTHER SHARE</b>	<b>TOTAL</b>
<b>1.SALARIES/WAGES</b>	\$3,387	\$0	\$0	\$3,387
<b>2. FRINGE</b>	\$1,073	\$0	\$0	\$1,073
<b>BENEFITS</b>				
<b>3. TRAVEL</b>	\$0	\$0	\$0	\$0
<b>4. EQUIPMENT</b>	\$0	\$0	\$0	\$0
<b>5. SUPPLIES</b>	\$650	\$0	\$0	\$650
<b>6. CONTRACTED</b>	\$3,890	\$20,000	\$0	\$23,890
<b>7. OTHER</b>	\$1000	\$0	\$0	\$1000
<b>TOTAL \$</b>	\$10,000	\$20,000	\$0	\$30,000

**Fiscal Year**  
**2018-Phase1**

<b>CATEGORY</b>	<b>PARK CNTY SHARE</b>	<b>MLIA SHARE</b>	<b>OTHER SHARE</b>	<b>TOTAL</b>
<b>1.SALARIES/WAGES</b>	\$3,522	\$0	\$0	\$3,522
<b>2. FRINGE</b>	\$1,116	\$0	\$0	\$1,116
<b>BENEFITS</b>				
<b>3. TRAVEL</b>	\$0	\$0	\$0	\$0
<b>4. EQUIPMENT</b>	\$0	\$0	\$0	\$0
<b>5. SUPPLIES</b>	\$650	\$0	\$0	\$ 650
<b>6. CONTRACTED</b>	\$3,712	\$20,000	\$0	\$ 23,712
<b>7. OTHER</b>	\$1000	\$0	\$0	\$1000
<b>TOTAL \$</b>	\$10,000	\$20,000	\$0	\$30,000

**Fiscal Year**  
**2019-Phase2**

<b>CATEGORY</b>	<b>PARK CNTY SHARE</b>	<b>MLIA SHARE</b>	<b>OTHER SHARE</b>	<b>TOTAL</b>
<b>1.SALARIES/WAGES</b>	\$3,662	\$0	\$0	\$3,662
<b>2. FRINGE</b>	\$1,160	\$0	\$0	\$1,160
<b>BENEFITS</b>				
<b>3. TRAVEL</b>	\$0	\$0	\$0	\$0
<b>4. EQUIPMENT</b>	\$0	\$0	\$0	\$0
<b>5. SUPPLIES</b>	\$650	\$0	\$0	\$ 650
<b>6. CONTRACTED</b>	\$4,528	\$20,000	\$0	\$24,528
<b>7. OTHER</b>	\$1000	\$0	\$0	\$1000.
<b>TOTAL \$</b>	\$10,000	\$20,000	\$0	\$30,000

**Fiscal Year**  
**2020-Phase2**

<b>CATEGORY</b>	<b>PARK CNTY SHARE</b>	<b>MLIA SHARE</b>	<b>OTHER SHARE</b>	<b>TOTAL</b>
<b>1.SALARIES/WAGES</b>	\$3,808	\$0	\$0	\$3,808
<b>2. FRINGE</b>	\$1,207	\$0	\$0	\$1,207
<b>BENEFITS</b>				
<b>3. TRAVEL</b>	\$0	\$0	\$0	\$0
<b>4. EQUIPMENT</b>	\$0	\$0	\$0	\$0
<b>5. SUPPLIES</b>	\$650	\$0	\$0	\$ 650
<b>6. CONTRACTED</b>	\$3,335	\$20,000	\$0	\$23,335
<b>7. OTHER</b>	\$1000	\$0	\$0	\$1000
<b>TOTAL \$</b>	\$10,000	\$20,000	\$0	\$30,000

**Fiscal Year**  
**2021-Phase2**

<b>CATEGORY</b>	<b>PARK CNTY SHARE</b>	<b>MLIA SHARE</b>	<b>OTHER SHARE</b>	<b>TOTAL</b>
<b>1.SALARIES/WAGES</b>	\$3,960	\$0	\$0	\$3,960
<b>2. FRINGE</b>	\$1,255	\$0	\$0	\$1,255
<b>BENEFITS</b>				
<b>3. TRAVEL</b>	\$0	\$0	\$0	\$0
<b>4. EQUIPMENT</b>	\$0	\$0	\$0	\$0
<b>5. SUPPLIES</b>	\$650	\$0	\$0	\$ 650
<b>6. CONTRACTED</b>	\$3,135	\$20,000	\$0	\$23,135
<b>7. OTHER</b>	\$1000	\$0	\$0	\$1000
<b>TOTAL \$</b>	\$10,000	\$20,000	\$0	\$30,000

**Fiscal Year**  
**2022-Phase2**

<b>CATEGORY</b>	<b>PARK CNTY SHARE</b>	<b>MLIA SHARE</b>	<b>OTHER SHARE</b>	<b>TOTAL</b>
<b>1.SALARIES/WAGES</b>	\$4,118	\$0	\$0	\$4,118
<b>2. FRINGE</b>	\$1,305	\$0	\$0	\$1,305
<b>BENEFITS</b>				
<b>3. TRAVEL</b>	\$0	\$0	\$0	\$0
<b>4. EQUIPMENT</b>	\$0	\$0	\$0	\$0
<b>5. SUPPLIES</b>	\$650	\$0	\$0	\$ 650
<b>6. CONTRACTED</b>	\$2,927	\$20,000	\$0	\$22,927
<b>7. OTHER</b>	\$1000	\$0	\$0	\$1000
<b>TOTAL \$</b>	\$10,000	\$20,000	\$0	\$30,000

**Fiscal Year**  
**2023-Phase2**

<b>CATEGORY</b>	<b>PARK CNTY SHARE</b>	<b>MLIA SHARE</b>	<b>OTHER SHARE</b>	<b>TOTAL</b>
<b>1.SALARIES/WAGES</b>	\$4,282	\$0	\$0	\$4,282
<b>2. FRINGE</b>	\$1,357	\$0	\$0	\$1,357
<b>BENEFITS</b>				
<b>3. TRAVEL</b>	\$0	\$0	\$0	\$0
<b>4. EQUIPMENT</b>	\$0	\$0	\$0	\$0
<b>5. SUPPLIES</b>	\$650	\$0	\$0	\$ 650
<b>6. CONTRACTED</b>	\$2,711	\$20,000	\$0	\$22,711
<b>7. OTHER</b>	\$1000	\$0	\$0	\$1000
<b>TOTAL \$</b>	\$10,000	\$20,000	\$0	\$30,000

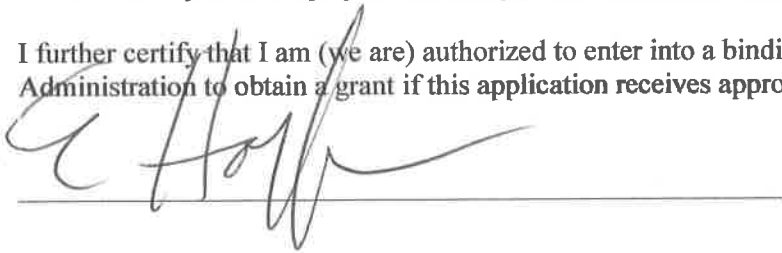
**Future MLIA funding is not anticipated beyond Fiscal Year 2023. The amount of effort put forth in this project for the full 10 years by the local surveying community, all the participating partners and the Park County GIS Department is expected to achieve the desired accuracy in the parcel data for Park County and the City of Livingston.**

## **AUTHORIZED SIGNATURE**

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 (we are) authorized to enter into a binding agreement with the Montana Department of Administration to obtain a grant if this application receives approval.



A handwritten signature in black ink, appearing to read "E. Hoff", is written over a horizontal line.

Date

2/12/13

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



# **FISCAL YEAR 2013 STATUS REPORT**

## First Quarter Summary:

Park County advertised an RFP for a surveying company in June 2012. Applications were graded based on evaluation criteria approved by the Park County Attorney's Office. The highest score determined the most qualified surveying company.

CTA Architects Engineers, Livingston, Montana was chosen as the most qualified. A public meeting was held in which a contract was signed between Park County and CTA Architects Engineers.

Park County GIS scanned and plotted the corner recordations for 2S8E, 2S9E, 2S10E and field maps were created for CTA's surveyor, George Bornemann, PLS, CFEDS.

Park County GIS/IT met with Mr. Bornemann several times to discuss project goals and implementation. Mr. Bornemann contacted the BLM and Gallatin County several times to discuss submission details, best practices, and other strategic methodology.

Park County GIS/IT, in collaboration with Mr. Bornemann, sent certified letters of notification to each property owner whose property would be entered to collect data by Mr. Bornemann.

Mr. Bornemann began field collection of data.

## Second Quarter Summary (through Feb 15, 2013):

Mr. Bornemann collected data through the winter months and completed the three townships in January, 2013. Data was submitted to the BLM and State Library in January, 2013. Mr. Bornemann received preliminary feedback from the BLM (William Grayson) in the form of a Least Squares Adjustment report and email correspondence in December, 2012.

Park County GIS received the BLM (SUMAC) spreadsheet, CD's containing all of the collection information including photographs, and created an XY generated shapefile based on the point data. Screen verification was made by GIS staff on the locational accuracy of the points collected.

In February, 2013, Bob Holliday, theme lead for Geodetic Control for the State of Montana, created an ArcGIS Online map of the CTA point data and shared the URL with Park County. Park County shared that link with Mr. Bornemann, and he is currently validating the point data online for accuracy.

A complete Second Quarter Summary will be provided to Stewart Kirkpatrick in March, 2013.

**Financial Summary FY 2013**

<b>CATEGORY</b>	<b>PARK CNTY SHARE</b>	<b>MLIA SHARE</b>	<b>OTHER SHARE</b>	<b>TOTAL</b>
<b>1.SALARIES/WAGES</b>	\$3,421.15	\$0	\$0	\$3,421.15
<b>2. FRINGE</b>	\$1,092.50	\$0	\$0	\$1,092.50
<b>BENEFITS</b>				
<b>3. TRAVEL</b>	\$0	\$0	\$0	\$0
<b>4. EQUIPMENT</b>	\$0	\$0	\$0	\$0
<b>5. SUPPLIES</b>	\$486.35	\$0	\$0	\$486.35
<b>6. CONTRACTED</b>	\$5,000.00	\$20,000	\$0	\$25,000.00
<b>7. OTHER</b>	\$0	\$0	\$0	\$0
<b>TOTAL \$</b>	<b>\$10,000.00</b>	<b>\$20,000</b>	<b>\$0</b>	<b>\$30,000.00</b>

February 7, 2013

Erica Hoffman  
GIS/IT Manager  
Park County GIS Department  
414 E. Callendar Street  
Livingston, MT 59047

Dear Erica:

As Montana Spatial Data Infrastructure stewards of the Cadastral, Geodetic Control and Administrative Boundary themes, we highly encourage data contributors to use and improve the Bureau of Land Management's (BLM) Geographic Coordinate Database (GCDB). We are pleased with the progress you have been able to make instituting your county's program and the points that were collected as a direct result of the FY2013 MLIA grant. Those points have been delivered to BLM and we are in the process of entering them into the Montana Control Point Database. As State GIS Coordinator, and along with the MSDI theme leads for Cadastral, Geodetic Control and Administrative Boundaries, we strongly support Park County's long term GCDB enhancement program and your FY 2014 request for MLIA funding.

Sincerely,



Stewart Kirkpatrick  
State GIS Coordinator  
Montana State Library



**City Manager**  
Edwin R. Meece

(406) 222-2005 phone  
(406) 222-6823 fax  
citymanager@livingstonmontana.org  
www.livingstonmontana.org

**Chairman**  
Steve Caldwell

**Vice Chairman**  
James Bennett

**Commissioners**  
Adam Stern  
Mel Friedman  
Bill Spannring

February 11, 2013

Erica Hoffman, GIS/IT Manager  
Park County Government  
414 East Callender Street  
Livingston, MT 59047

Erica:

The City of Livingston is pleased to write in support of your grant application, under the Montana Land Information Act, in order to undertake a Geographic Coordinate Database enhancement effort. The City of Livingston is a long-standing partner with Park County government, for the provision of GIS services to our shared constituency. Our commitment to the joint success of this program was emphasized by the Livingston City Commission's recent adoption of the *Livingston-Park County City/County Compact*; of which our GIS partnership is an important element.

Accurate GIS-based information (data, maps, boundaries, etc) is critical to many of our services, and most importantly public safety;

- Livingston Fire & Rescue depends upon updated reference maps to find county locations (in automatic aid to Park Rural Fire #1);
- Livingston Dispatch utilizes GIS/CAD systems to assure the rapid deployment of life-saving services;
- Livingston Police Department is preparing for the installation of cutting-edge software that will link law enforcement actions to the GIS database and use spatial analysis techniques to prevent, detect, and apprehend criminals.

Please advise me of any opportunities where the City of Livingston can leverage additional resources toward the successful completion of this project.

Respectfully,

Edwin R. Meece  
CITY MANAGER

Cc: File

