



Application

93274 - FY2021 Montana Land Information Act Grant Application - Final Application

93520 - Chouteau County, MT E-911 & GPS/GIS Project
MSL Montana Land Information Act Grant

Status: Submitted Submitted Date: 02/13/2020 9:18 AM Submitted By: Kellie M Waldbillig

Applicant Information

Primary Contact:

Name:* Mrs. Kellie M Waldbillig
Salutation First Name Middle Name Last Name

Title:

Email:* kelliebutler328@gmail.com

Alternate Email kelliewaldbillig@gmail.com

Address:* PO Box 459

1308 Franklin ST

* Fort Benton Montana 59420
City State/Province Postal Code/Zip

Phone:* 406-622-3022
Phone ##### Ext.

Alternate Phone 406-231-3434

Fax: 406-622-5781

Comments:

Organization Information

Name:* Chouteau County Emergency Management (DES)

Organization Type: County Government

Organization Website:

Address:* PO Box 459

* Fort Benton Montana 59442
City State/Province Postal Code/Zip

Phone:* 406-622-3027

Ext.

Alternate Phone

Fax:

Email address dgessaman@hotmail.com

Alternate Email

Comments:

Applicant Organization and Contact Information

Type of Governmental Entity:* Any city, county, or other division of local government

Name of Agency/Entity:* Chouteau County, MT

Department:* Chouteau County Commissioners

Division/Section (if applicable): Commissioner Daren Schuster

Mailing Address:* PO Box 459

City:* Fort Benton

County:* Chouteau

Zip Code:* 59442

Organization's Main Phone Number:* 406-622-3022

Organization's Fax Number:

Primary Point of Contact

Salutation:* Mrs.

Contact Name:* Kellie Waldbillig

Contact Title:* 9-1-1/GIS Coordinator & Deputy DES

What is the contact's defined role in the proposed project:* MLIA Grant Project Manager (PM)
Max 250 characters

Before completing the MLIA Grant application, the designated point of contact must read and understand the fiscal year 2021 Montana Land Information Act Grant Packet in its entirety.

Has the primary point of contact read the fiscal year 2021 Montana Land Information Act Grant Packet in its entirety?* Yes

Authorization Letter

Please attached signed authorization letter here as a PDF document:* SignedComLetter.pdf

Proposal Information

The applicant must identify one grant priority that the proposed project will address.

Identified Grant Priority:* 1.1. Develop GIS Information to Support Next Generation 9-1-1

Please indicate whether or not the proposed grant is part of a multi-year proposal. If it is, please identify the intended total number of years for the project and the current year of the project. After clicking "yes" below, you will see text boxes appear in which you can enter the required information about the multi-year project.

Multi-Year Proposal:* Yes

Please define the total number of years proposed for the multi-year project.

Total number of proposed project years: 4

Please indicate what year of the multi-year project this proposed grant would constitute. For example, enter "Year 2" if the proposed project would be the second year of a multi-year project.

Current year of the project: 4

Please list the person(s) who prepared this grant application.

Proposal Prepared By:* Kellie Waldbillig

Executive Summary:*

Please provide an executive summary of the proposed project.

There is a 3,000-character limit for the executive summary.

Chouteau County (the County) understands that they will eventually need to migrate their E9-1-1 System to the NG9-1-1 platform. The County is applying for MLIA funding to update the County's existing Enhanced 9-1-1 and GIS data to meet the NENA NG9-1-1 standards, as well as to supplement current data with additional attribution and information.

Relevance

Relevance to the FY2021 Montana Land Information Plan:^{*}

In this section, please:

1.) Describe how the proposal meets the purpose of the Montana Land Information Act: to develop a standardized, sustainable method to collect, maintain, and disseminate information; and

2.) Clearly demonstrate how the proposal meets the defined FY2021 Montana Land Information Plan Priority.

There is a 3,000-character limit for the relevance narrative.

The purpose of the MLIA program 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. Chouteau County has initially met that purpose through the implementation of their Enhanced 9-1-1 (E9-1-1) Telephone System, which was developed between 1998 and 2001 and resulted in a healthy GIS program. To date, approximately 2,725 miles of road have been mapped and 3,549 structures mapped and addressed using the National Emergency Numbering Association's (NENA) standardized data guidelines and US Postal Service (USPS) addressing standards. The County has sustained that initial project effort by supporting an ongoing GIS data maintenance program administered through the County's Geographic Information System (GIS)/Disaster and Emergency Services (DES) to map, address and integrate new structures and roads and to maintain the existing dataset. The need for accurate and up-to-date digital data to support efficient emergency response and disaster preparedness, as well as disaster mitigation efforts, is best supported through active and robust GIS efforts.

The MLIA's FY 2021's Land Information Plan Priorities under the heading Tier 1 Priorities, Item a. lists "Develop GIS Information to Support Next Generation 9-1-1(NG9-1-1) that are National Emergency Numbering Association (NENA) Standard Compliant." To facilitate the eventual migration of their current E9-1-1 System to the NG9-1-1 platform, the County will need up-to-date structure point and road centerline attribution and emergency responder jurisdictional boundaries that meet the NENA NG9-1-1 standard models to support that Priority. The County is applying for MLIA funding to further their efforts (started in MLIA_2018_01 and continued in MLIA_2019_01 and MLIA_2020_04) to re-verify, update and maintain the County's existing Enhanced 9-1-1 GIS data by adding attribution that meets the NENA NG9-1-1 standards, as well as supplement the current local data with additional attribution and information.

Public Benefit

Public Benefit:^{*}

In this section, please describe why and demonstrate how the grant project will:

1.) Benefit a specific MSDI theme;

2.) Enhance the land information needs of multiple agencies or jurisdictions; and

3.) Benefit the citizens of Montana.

There is a 3,000-character limit for the public benefit narrative.

The County assigns new construction addresses – if they become aware of it. Residents needing utility/postal services are supposed to contact the GIS office, but without consistent submittal of residential building permits, all new structures aren't identified. Some are found via State electrical permitting and phone service orders. Development is often "stumbled into" during fieldwork, but only limited areas are covered. Annual E9-1-1 audits reviewing phone record addresses support identifying growth, but landlines lessen every year, reducing any ability to keep data up-to-date. As wireless devices and local coverage improve, residents drop landlines. Wireless 9-1-1 calls are increasing, but no wireless account info is available. Since 2010, only about 15 new structures are identified/mapped annually. As a result, GIS data attribution is aging quickly without adequate means of maintenance.

To overcome these shortfalls in capturing/maintaining up-to-date structure points and road centerlines, the County proposes a multi-pronged approach to:

- A) collect new data via standardized, methodical fieldwork;
- B) maintain the current E9-1-1 data (e.g. road centerlines, structure points and emergency service jurisdictions) using NG9-1-1 standards;
- C) continue private/public GIS distribution via AGOL publishing of updated digital content accessible via weblinks on the County's website;
- D) integrate field data into the Public Alert Notification System (PANS), enhancing public communication in emergencies/disasters;

E) and ultimately share the final data with the State.

Improved data from the proposed project will be shared with the appropriate MSDI theme stewards to improve the County's portion of the statewide MSDI road centerlines and structure points datasets, benefitting any and all users.

Primary Project Manager Contact Information

Salutation:* Mrs.
Name:* Kellie Waldbillig
Title:* 9-1-1/GIS Coordinator & Deputy DES
Email Address:* kelliebutler328@gmail.com
Phone Number:* 406-622-3022

Secondary Project Manager Contact Information

Salutation:* Mrs.
Name:* Debbie Gessaman
Title:* DES Coordinator
Email Address:* chouteaucountydes@gmail.com
Phone Number:* 406-622-3027

Organizational Capability

Organizational Capability:*

There is a 4,000-character limit for the organizational capability narrative.

The proposed project will be managed by the Chouteau County 9-1-1/GIS Coordinator and Deputy DES, Kellie Waldbillig. Born and raised in Chouteau County, Kellie has worked for the County since 2015 and takes personal pride and interest in keeping the GIS data current and correct. As the daughter of the previous (and original) GIS mapping coordinator (who was also a former emergency dispatcher), Kellie grew up with Public Safety and through her mother, has a wealth of knowledge about the County and the development of its map data. She is responsible for working with (on the phone and in person) County landowners and residents on the assignment and input of all new structure addresses, including road naming. Kellie maintains the current GIS, including the structure points/address database and the E9-1-1 System (e.g. the Master Street Address Guide or MSAG, hosted by Intrado). Kellie reviews telephone service order activity reports received from the local telephone companies (e.g. service orders for adds, deletes and changes) for accuracy/addressing discrepancies and works with the County Clerk & Recorder and Dept. of Revenue office to monitor grantor/grantee changes. She has worked extensively with the County's E9-1-1 Consultant to improve the current GIS mapping data for the County and spearheaded the effort to pursue and develop this multi-year project.

Kellie is the County 9-1-1 Coordinator and a member of the County 9-1-1 Advisory Board, as well as their Secretary/Treasurer. Kellie has supported this MLIA project's last three successful years, by actively participating (hundreds of hours) in the field verification and data collection efforts of the County's Consultant, as well as providing the grant reporting administrative duties. Kellie will continue those efforts by meeting all ten (10) of the expectations/requirements of an MLIA Grant Project Manager.

Kellie also has 9 years of previous experience as an Office Manager and Bookkeeper which supplied her with an extreme attention to detail and exceptional customer service skills. Kellie attended the College of Great Falls – MSU and graduated with an Associates Degrees in Graphic and Web Design in 2016. She also graduated with a Bachelor's of Science in Organizational Communication from MSU – Billings in May 2017. Regarding overall contractual and grant administration, Kellie will be supported by the 9-1-1 Advisory Board, the County Commissioners and the secondary Project Manager, Debbie Gessaman.

The proposed project's secondary Project Manager will be the Chouteau County DES Coordinator, Debbie Gessaman. Debbie is a native of the County and started working in 2006 as a Deputy DES/Assistant EMS Coordinator. Debbie has helped the County work through Presidential Disasters declarations 1992 and 1996, by documenting infrastructure damaged from flooding, work hours, equipment and supplies, including reporting. Debbie worked with the County Commissioners to close these projects to ensure compliance with FEMA standards. She continues to work with State, Federal and local officials to create a disaster resilient community.

Debbie is a first responder and certified Emergency Medical Technician – Basic (EMT-B) and Advanced EMT (AEMT). She is the EMS Coordinator for Chouteau County and an AEMT for Memorial Ambulance Service of Fort Benton. Debbie has experience with grant management and administration for large and small projects and supervisory experience at many different levels, including an annual MT Emergency

Management Program Grant. This grant is used to fund various exercises, contractual expenses for the County's mapping consultant, wages for the DES Coordinator and Deputy DES, developing various County EOP (Emergency Operating Plans) and various meetings. As the County EMS Coordinator, she has also successfully applied for and executed grants for a portable suction unit and a new 2001 ambulance (through the State DOT).

Project Management

Project Management:*

There is a 10,000-character limit for the project management narrative.

1. Management Plan

Kellie Waldbillig, the designated MLIA Grant Project Manager, will continue to comply with the State Library mandatory reporting requirements by submitting invoices, financial reports, quarterly progress reports, data deliverables and a final project report. Kellie is the primary point of contact for the County's E9-1-1 & GPS/GIS Consultant and will manage all respective coordination and communication, including scheduling and processing of Consultant invoices.

2. Past Record of Performance

Kellie Waldbillig began working with the County's E9-1-1 and GIS data in 2015 and quickly realized the efforts to maintain the existing data and augment/supplement the County's datasets with additional attribution and data layers needed to be prioritized. The County's initial MLIA Grant application (FY 2017) was not approved, as it was too large/broad in scope. Kellie worked with the County's long-term E9-1-1 & GPS/GIS Consultant to develop a more realistic approach, breaking the overall project down into more manageable components that could be met within the typical grant cycle. Kellie and the Consultant have refined their approach and methodologies over the past three years of this multi-year project to be more efficient, yet keep County GIS users "fed" with updated data and tweaks and enhancements to their respective pieces of the data pie to support them to also be more effective/efficient. For instance, the Roads Dept. acquired their own field computers and GPS equipment and adopted a modified model/mode of MLIA/E9-1-1 field data collection, using the County's GIS base layers, to begin mapping and attributing bridges, culverts and cattle guards. The Roads Dept. has requested additional capabilities to begin inspecting and tracking information via GIS, such as sign installation, gravel pit location and certifications, bridge install/repair, tree maintenance, snow traps, and repeat flooding areas, etc. Kellie and the County's Consultant will be working with the Roads Dept. this coming spring on enhancing their GPS/GIS capabilities.

3. Hiring a Consultant

It is proposed that this project will be contracted again to Mapping and Planning Specialists, Inc. (MaPS, Inc.) and managed by the County 9-1-1/GIS Office. As with Year's 1 through 3 of this 4 year MLIA project, the County and MaPS, Inc. anticipate signing a Letter of Agreement (LOA) stating that MaPS, Inc. will provide E9-1-1 & GPS/GIS Consulting Services to the County to conduct the MLIA project's Statement of Work (SOW) based on this grant application. The LOA details that MaPS, Inc. will comply with the Scope of Work as detailed in the SOW and work with the County on the Goals and Objectives and complete them within the Period of Performance for the approved compensation.

a. MaPS, Inc. has been working for the County as their E9-1-1 Consultant since April 2000 (and Matt Pearce, as part of Baker GeoResearch, for several years prior to that). MaPS, Inc. successfully implemented the County's E9-1-1 System nearly two decades ago and has completed multiple contracts with other County and City agencies in Montana and the region and has a reputation for providing quality GPS/GIS services. MaPS, Inc.'s personnel have extensive experience in GPS field data collection, GIS development and E9-1-1 implementation and have worked on over fifty projects in many states across the nation. MaPS, Inc. has successfully completed previous projects of similar scope and have demonstrated a thorough understanding of the required GPS/GIS services. MaPS, Inc. has implemented ArcGIS Online solutions for several utility projects in the State. The County believes that MaPS, Inc. has provided a reliable and fair project cost that is a good use of MLIA grant funding.

MaPS, Inc. is managed by Matthew Pearce, it's President and company Founder. Matt is a graduate of the University of Minnesota with a B.S. in Geography with GIS/Cartography emphasis. He has been working in the geographic field for 26 years and is a certified Emergency Numbering Professional (ENP) and a member of the National Emergency Numbering Association (NENA). MaPS, Inc. is currently providing E9-1-1 consulting and GPS/GIS mapping and addressing services for a significant number of MT counties, including Toole, Pondera, Chouteau, Valley, Granite and Mineral. MaPS, Inc. specializes in Public Safety Consulting, GPS field data collection and GIS processing, including on-site project coordination and training, and has a hard-earned reputation of providing clients with high quality data and excellent customer service.

Matt Pearce of MaPS, Inc. supported Chouteau County for the last three (3) fiscal years with technical assistance developing their MLIA grant applications and conducting the actual work. Matt and Kellie have spent hundreds of hours afield together, traversing each community's street systems and the County's extensive rural road network, verifying and updating the attribution of thousands of structure records and editing/correcting discrepancies in the road centerlines. Matt and Kellie work closely together to update the ArcGIS Online data and educate and support County GIS users to utilize the GIS data in their daily workflows.

Contractual Services

Does the applicant intend to hire a consultant to perform work on the proposed project?*

Yes

Name of consultant company/organization: Mapping and Planning Specialists, Inc. (MaPS, Inc.)

Primary contact at company/organization: Matthew Pearce

Invoicing Methodology

Please Attach Sample Invoicing Documents:* MLIA_2021_CoverLetter_Invoice.pdf

Scope of Work

Scope of Work:*

Please observe the following requirements and guidelines for completing the scope of work narrative:

Formatting, Writing, and Mandatory Form Requirements for this Section:

1. Refer to all hired or potential consultants/contractors as "consultant." Do not use individual or company names, e.g., Raster & Vector GIS Firm.
2. The following format is required for labeling goals, objectives, and tasks:
 - a. All goals must be numbered, e.g.: Goal 1: Improve GIS for County XYZ.
 - b. All objectives must be numbered in order and include their overarching goal, e.g., Objective 1.1: Complete an MLIA Grant Application.
 - c. All tasks must be numbered in order and include their overarching goal and objective, e.g., Task 1.1.1: Create a Web Grants User Profile.
3. Collecting Survey Control – Applicant must submit the "MLIA Proposed Survey Control Point Collection" form, provided in the MLIA Grant Application Packet, to identify the proposed collection.
4. The applicant is required to submit the "MLIA Grant Project Timeline." Please use the template provided below to complete the timeline.

Goals and Objectives -- List the project goal or goals and objectives. Goals are separate and distinct from objectives. Project goals should be broad and provide a general statement of the project purpose. Each goal should have at least one measurable objective. Each objective should describe a specific outcome of the project and when this outcome will be achieved.

Tasks -- Tasks must be described in chronological order necessary to accomplish the work under each objective. This description must provide sufficient detail to show that the tasks are achievable and will accomplish the objectives stated in the application. The description also should provide detail concerning the specific results of each task.

1. All equipment purchases must be listed as separate tasks. Each equipment purchase must be clearly described and include specific justification how the purchase will help achieve the applicant's goals and objectives.
 - a. Equipment purchases must comply with section 90-1-411 (1), MCA: "Money in the account may be used only for the purposes of this part, including purchasing technology to assist in collecting, maintaining, or disseminating land information and funding the budget required under 90-1-410."
2. Please refer to the MLIA Grant Compliance Section of the MLIA Grant Application Packet for GIS Project Planning Grants eligible expenditures and activities.
3. Please refer to Appendix B of the Montana Land Information Act Grant Packet for requirements for collecting survey control.

There is a 15,000-character limit for the scope of work narrative.

Chouteau County proposes the following Goals, Objectives and Tasks for the successful implementation and completion of this MLIA grant application.

Goal 1: GPS/GIS Field Audit

Objective 1.1: Continue the GPS/GIS field audit between August and October 2021.

Task 1.1.1: The County will continue its multi-year GPS/GIS field audit, which broke the County's approximately 3,500 structure points into manageable geographic pieces that could be tackled over four (4) years. Because of the density of structures and most benefit to the greatest residents (and greater odds of calling 9-1-1), collection started in the community of Fort Benton the first year and over 1,000 structures were verified/audited. For the second year, the communities of Big Sandy, Geraldine, Highwood, Carter, Loma and Square Butte were also canvassed, resulting in an additional 900 structures verified/audited. In the third year, 750 rural structures (those not in these communities) were verified/audited in the approximate northern half of the County - and 94 new structures were mapped (as part of ongoing E9-1-1 maintenance mapping), as well as 53 new or revised road centerlines (includes long, curvilinear driveways and access roads). For the fourth and final year of this multi-year project, field auditing services will continue to be accomplished with a per structure rate (covers all labor, fuel, vehicle, per diem, etc.). Given the extensive size of the County and the large number of road miles to be traversed to reach all of the rural structures, the cost per structure (includes labor and expenses) for the rural areas was increased from \$9/structure to \$15/structure to offset the additional time, hotel costs, per diem and fuel/mileage needed to reach the widely spread rural structures. As in each of the previous years of this project, the GIS/DES staff will accompany the Consultant afield supporting the entire field audit. For 2019's field efforts (Year 3), over 2,800 miles were driven conducting approximately half of the rural fieldwork/verification.

The remaining southern half of the County's rural areas will be canvassed systematically, road by road, structure by structure. The tablet computer will display all of the current GIS data (e.g. road centerlines, road points, structure points, access points, access-point-to-structure-point connectors, etc.) as well as background imagery (e.g. 2017 NAIP Color Orthos, or if available, the 2019 NAIP imagery). While afield, the attribution of each structure point will be accessed, its current data reviewed (e.g. owner, resident, structure type and structure description, etc.) and updates will be made on-the-fly, based on available and observed conditions.

Goal 2: Maintain the County's current E9-1-1 data against the NENA NG9-1-1 model.

Objective 2.1: Process ongoing 2019 E9-1-1 maintenance mapping data and Year 4's field audit data against the NG9-1-1 framework; July 1, 2020 through June 30, 2021.

Task 2.1.1: As new roads and structures are collected and processed or verified/audited, the GIS/DES staff will continue to complete the attribution of NG91-1 fields added to the existing E9-1-1 dataset as part of Year 4's efforts on this project/goal. For instance, on the road arcs, NG9-1-1 data fields will need to be attributed, such as ESN Left/Right, County Left//Right, State Left/Right, MSAG Community Name Left/Right, Postal Code Left/Right, Parity Left/Right, etc. Consultant to provide support to GIS/DES staff as needed.

Objective 2.2: Continue to ensure the integrity of the dispatch mapping software functionality; July 1, 2020 through June 30, 2021.

Task 2.2.1: After the 2020 field audit tasks have been completed and the field data is processed, updated data will be conveyed to the County's mapped ALI vendor. Map document(s) will also be revised/updated and submitted for testing to ensure that the data maintains compatibility with the dispatch mapping software (e.g. making sure the dispatch map still "pops" to the correct location during landline 9-1-1 calls). Tweaks/testing of the data and/or the map documents will be ongoing through June 30, 2021.

Goal 3: Maintain and expand the "Open Data" aspect of the County's GIS.

In Year 1, the GIS/DES ArcGIS Desktop license and its corresponding ArcGIS Online license were used to set-up an ArcGIS Online account to allow for data collection by GIS/DES staff. In addition, the data residing on ArcGIS Online was made public for everyone's use. The link is <http://www.arcgis.com/home/item.html?id=5df772d0bd446e8fdc8e8df3a14c93>. It can also be accessed using ESRI's Explorer app for iOS and Android devices by searching for "Chouteau County, MT PUBLIC MAP" in those apps. The County's GIS/DES webpage (www.chouteaucountydes.com) has instructions and links for interested users. A press release was also drafted and published in the local newspaper regarding this information.

Objective 3.1: Regularly update digital maps/data accessible via web links from the County's website and configure each feature layer; February to March, 2021.

Task 3.1.1: County will continue to publish updated maps and establish and test linkages from the County's website and will update the data with the 2020 field audit collection effort by February 1, 2021. A supplemental press release will also be drafted for publication in the local newspaper regarding public access to the County's map data.

Task 3.1.2: County staff users opting to become named AGOL (Level 1 or 2) users may have full access to the data (e.g. via account credentials, with a user name/password), which will complement the general public's "stripped-down version" access. Presently, some County GIS users (Law, Fire and EMS) utilize Collector with the GIS/DES dataset using tablet computers supported by GPS for navigation. Some users rely on the Explorer App on their phones with the County's Public Map data (though they must have cell service or WIFI for location information). The Roads Dept. was added as a Level 2 user in 2018 and is using Collector with GPS to assist installation of intersection signs and collection of road points (e.g. culverts, cattle guards, sign damage, etc.). The ultimate goal is to expand other County agencies access using ArcGIS Online, but the ESRI licensing costs are curbing participation. The GIS/DES office will continue to educate potential County users on benefits of greater access to the data through in-house presentations and offering licensing/training; July 2020 through April 2021.

Goal 4: MSDI Theme Steward Data Submittal

Objective 4.1: Submit an interim set of structure points and road centerlines (including Year 1, 2, 3 and 4's field audit/verification efforts) with the appropriate MSDI theme stewards to promote consistency and accuracy.

Task 4.1.1: Before June 30, 2021, submit a digital dataset to the State including valid metadata for the geodatabase and feature classes developed during the successful completion of this phase of the multi-year project.

Project Schedule and Timeline

Project Timeline:* MLIA_2021_CHOUTEAUCOMT_TIMELINE.pdf

Proposed PLSS Collection

Is the proposed project for the sole purpose of collecting new survey control data? No

Project Deliverables

Deliverable:	Deliverable Type:	Explanation:	Related Project Task:	Completion Date:
NG9-1-1 Data	Databases	A final set of Chouteau County attributed structure points and road centerlines (including Year 1, 2 and 3's field audit/verification efforts) in NG9-1-1 format will be submitted to the appropriate MSDI theme stewards to promote consistency and accuracy.	4.1 MSDI Theme Steward Data Submittal	06/18/2021

Budget Narrative

Budget Justification Narrative:*

Budget Narrative -- Applicant must clearly state the assumptions used to develop the proposed budget, including all sources of contracted and subcontracted cost estimates. If the applicant's share is to be considered in-kind funds, the source of those in-kind funds must be documented. Matching in-kind funds must be specific to the project and be fully justified. They may be monetary or in other forms such as staffing, infrastructure, or technology support. All funding sources listed in the subsequent budget forms must be fully explained. If grant funds are to be distributed to multiple funding recipients through contractual agreements or other means, those must be explained in the narrative.

Funding Partners and Required Statements of Support -- All funding partners, funding sources/recipients, must be identified. Statements of support are required for each identified funding partner. Any funds pledged to this proposal must be reflected in the statements of support. Statements of support must be provided in the Funding Partners form of the application.

Matching Funds -- Matching funds—either cash or in-kind—are not required by the MLIA Grant Program. However, matching funds from the applicant and any funding partners do demonstrate the applicant's commitment to the proposed project. Therefore, applicants proposing higher levels of matching funds will be scored more highly than applicants pledging little or no matching funds.

There is an 8,000-character limit for the budget narrative.

The County GIS/DES Office expects to provide a considerable in-kind contribution of labor to the project effort, including grant administration, field data collection support and resident/County agency coordination by Kellie Waldbillig.

Kellie Waldbillig anticipates providing at least 12 hours over the course of the project for quarterly grant administration, including Consultant coordination and State progress reporting. Kellie will also assist with an additional estimated 8 hours of resident and County agency coordination. Kellie's hourly rate (salary and benefits) is \$20/hr., so her estimated 20 hours of administrative labor contribution to the overall project is \$400. Supplies/copies are also anticipated at \$50 during the project period.

Kellie Waldbillig will also supply labor for the NG9-1-1 data field review and attribution of fieldwork, an estimated 30 hrs. of labor, as well as supporting the field data collection effort, supplying an estimated 114 hrs. of direct labor. Kellie will also support the educational support on/of in-house GIS presentations/training for additional/other potential County GIS users; 4 hours. Kellie's estimated fieldwork labor contribution to the project will be at least 148 hrs. At a labor rate of \$20/hr., Kellie's fieldwork labor contribution is \$2,960.

The proposed project's costs for contracted services and in-kind labor include the following:

1) GPS/GIS Field Audit; 252 hours.

1.1) Consultant to field verify 750 structures x \$15/ea.; \$11,250; *Estmtd. @ 114 hours (750 rural structures x \$15/structure = \$11,250; \$11,250/\$99 hr. = 113.64 hours). County GIS/DES to assist field verification & support/assist consultant; *114 hours. Consultant's per rural structure rate covers all labor, fuel, vehicle, per diem, etc.

2) Maintain the County's current E-911 data against the NENA NG9-1-1 model; 54 hours.

2.1) GIS/DES processing of ongoing maintenance mapping data (10 hours) and field audit data (20 hours) against NG9-1-1 GDB framework. Consultant support; 12 hours

2.2) Consultant/Mapped ALI Vendor Quarterly Coordination, Testing/Tweaking; 12 hours.

3) Maintain and Expand the GIS user base; 28 hours.

3.1) Consultant AGOL map development, quarterly map publishing, including testing, website linking; 16 hours.

3.2) Joint in-house AGOL/GIS presentations/education sessions; 8 hours.

4) MSDI Theme Steward Data Submittal; 10 hours.

4.1) Submit a digital dataset to the State including valid metadata; 10 hours.

Budget Tables

Is the proposed project for a GIS Project Planning Grant? No

MLIA Grant Budget Summary Table (Required for All Applicants)

Please attach the completed "MLIA Grant Budget Summary" table as a PDF document in the field below.

MLIA Grant Budget Summary Table: MLIA_2021_CHOUTEAUCOMT_BUDGETSUMMARY.pdf

MLIA Grant Detailed Budget (Required for All Applicants Except GIS Project Planning Grant Applicants)

Please attach an "MLIA Grant Detailed Budget" table as a PDF document.

MLIA Grant Detailed Budget: MLIA_2021_CHOUTEAUCOMT_DETAILEDBUDGET.pdf

MLIA Funding Request Summary

Category	Requested MLIA Funds
Personnel (including fringe benefits)	\$0.00
Travel	\$0.00
Equipment	\$0.00
Supplies & Materials	\$0.00
Contractual	\$16,434.00
Other	\$0.00
Totals	\$16,434.00

Funding Partners

Name of Contact:	Name of Agency:	Street Address:	City:	County:	Zip Code:	Contact Email Address:	Contact Phone Number:	Funding Partner Pledged Cash Amount:	Funding Partner Pledged In-Kind Amount:	Statement of Support:

Project Sustainability

Project Sustainability Narrative:

There is a 3,000-character limit for the sustainability narrative.

As part of this overall MLIA E9-1-1 & GPS/GIS Project, Chouteau County has benefited by acquiring a proven field data collection system - tablet computer with sub-meter GPS unit - and significant field data collection experience editing existing GIS data and mapping new points and road centerlines using NENA standards. The County GIS/DES staff have received on-the-job training by doing - and are equipped and prepared to maintain the NG9-1-1 dataset moving forward as part of their ongoing E-911 maintenance mapping program (funded via collection of wireless and landline telephone surcharges and the existing 9-1-1/DES budget). The County GIS/DES staff are participating in regional roundtables regarding the development of NG9-1-1 for Montana and when infrastructure is in place to implement the system, the County will be well-positioned to contribute an accurate and complete dataset to the cause and transition smoothly into a NG9-1-1 maintenance mapping program.

The GIS/DES staff will continue to publish ArcGIS Online data to support existing local users and will continue to look for opportunities to develop additional GIS data and users as the benefits of the available data are realized. The County will also provide the State with an annual update (or as requested) of the structure points and road centerlines enhanced by this MLIA project.

Renewable Grant Accountability

Fiscal Year 2020 MLIA Grant Cycle

Please indicate whether or not the applicant was awarded an MLIA grant for state fiscal year 2020. If the applicant did receive a grant for fiscal year 2020, please provide a written narrative of the grant project. After clicking "yes," you will see a text box appear in which you can enter the written narrative.

Did the applicant receive an MLIA grant in fiscal year 2020? Yes

FY2020 MLIA Grant Progress Report:

Applicants awarded an FY2020 MLIA Grant must report on the progress made toward meeting the requirements of the grant. The report must include the status of the project timeline, tasks, and deliverables.

There is a 4,500-character limit for the narrative.

Chouteau County applied for and received an MLIA grant for the 3rd year of this application's multi-year approach. Please review the following details as a FY2020 MLIA Grant Summary report.

Goal 1: Maintain E9-1-1 data against NG9-1-1 model

Objective 1.1 – Process fieldwork against NG9-1-1 GDB Framework

Task 1.1 – NG9-1-1 field attribution on fieldwork; This task is scheduled for February/March 2020.

Objective 1.2 – E9-1-1 dispatch mapping software/data maintenance and testing

Task 1.2 – Mapped ALI Vendor data update/coordination; This task is scheduled for June 2020.

Goal 2: Maintain and Expand County GIS users

Objective 2.1 – Update/Maintain ArcGIS Online maps/data

Task 2.1 – Maintain/update ArcGIS Online maps/data; Ongoing

The County's public webmap was updated with current parcels and public land layers – as well as semi-processed field data (from the August field work) and published to AGOL to update the data for ongoing fieldwork and other users. A second update is scheduled for Spring 2020, after the August field work is fully processed and the October and November field work processing is also completed.

Task 2.2 – Maintain, expand and educate County GIS users

The County Roads Dept. has requested additional capabilities. The GIS/DES staff and Consultant anticipate working with them this coming Spring to enhance their capabilities.

Goal 3: GPS/GIS Field Audit

Objective 3.1 – Continue the GPS/GIS field audit

Task 3.1 – Field audit an additional 750 rural structures. DONE

MaPS, Inc. and GIS/DES staff canvassed the NW4 of the County 8/5-8/8, reviewing the attribution and spatial location on 313 rural structures and updated the rural road network as changes were encountered. Two additional rounds of fieldwork were conducted 10/1-10/4 and 11/6-11/8 (adverse seasonal weather conditions were encountered both sessions, slowing field efforts) in the NE4 of the County to complete the remainder. During 11 days afield, over 115 hours of labor were expended and an estimated 2800+ miles were driven.

Goal 4: MSDI Theme Steward Data Submittal

An interim dataset will be submitted to the State prior to June 19, 2020.

Fiscal Years 2016-2019 MLIA Grant Cycles

Please indicate whether or not the applicant was awarded any MLIA grants during state fiscal years 2016-2019. Please select "yes" for any of the following applicable years. After clicking "yes," you will see a text box appear in which you can enter a written narrative explaining the grant project. In the text box, please provide a written narrative for each grant awarded, outlining the successes and failures of the grant. Explain how tasks, timelines, and deliverables of the project were or were not met. Demonstrate how past project failures will ensure future successes.

Did the applicant receive an MLIA grant in fiscal year 2019?* Yes

FY2019 MLIA Grant Summary:

There is a 2,500-character limit for the narrative.

Chouteau County applied for and received an MLIA grant for the 2nd year of this application's multi-year approach. Please review the following details as a FY2019 MLIA Grant Summary report.

Goal 1: Maintain the E9-1-1 data against the NENA NG9-1-1 model. DONE

Objective 1.1 – Process 2018 E911 maintenance mapping and Year 2's field audit data against the NG9-1-1 framework; DONE

Task 1.1 - NG9-1-1 field attribution on fieldwork. DONE

Ongoing E9-1-1 maintenance mapping was conducted in August 2018; resulting field data (new roads and structures) was processed and attributed, including all NG9-1-1 fields by 10/18.

Objective 1.2 – Ensure the integrity of the dispatch mapping software functionality. DONE

Task 1.2. – Mapped ALI Vendor data update/coordination. DONE

An updated GDB of the County's E9-1-1 data was provided to Central Square (formerly Zuercher) for updating of the dispatch map data in 6/19.

Goal 2: Maintain and expand GIS Use/Users. DONE

Objective 2.1 – Update digital online maps/data; DONE

Task 2.1 – Update the "Chouteau County, MT PUBLIC MAP" (published to ArcGIS Online) and maintain the website linkages; DONE

The County's public webmap was re-published/updated on-line in October 2018 (after the GPS/GIS Field Audit was completed) and again in 6/19 (including the GIS/DES Office's ongoing data maintenance efforts that are performed daily).

Task 2.2 – Maintain and expand the County GIS users; the County Roads Dept. is using the GIS data to support their ongoing maintenance work regarding signs and infrastructure; other potential users are informed of their options as they inquire. DONE

Between 10/18 and 6/19, the County and MaPS, Inc. worked with the district Livestock Inspector/Sheriff's Deputy to provide a tablet computer/GPS mapping capabilities and GIS data for herd district support. The County Roads Dept. was also supported for additional GPS/GIS capabilities for data collection.

Goal 3: GPS/GIS Field Audit; DONE

Objective 3.1 – Year 2 GPS/GIS field audit; complete the remaining communities in the County; DONE

Task 3.1 – Field audit/verify 900 additional structures; the communities of Big Sandy, Geraldine, Highwood, Carter, Loma and Square Butte were audited; DONE

Goal 4: State Coordination. DONE

An updated GDB - including all Field Audit data for Year 2 (of 4), ongoing E9-1-1 maintenance mapping efforts (e.g. newly constructed structures and updates to road centerlines) and updated metadata - was submitted to the State by 6/19.

Did the applicant receive an MLIA grant in fiscal year 2018?* Yes

FY2018 MLIA Grant Summary:

There is a 2,500-character limit for the narrative.

Chouteau County applied for and received an MLIA grant for the 1st year of this application's multi-year approach. Please review the following details as a FY2018 MLIA Grant Summary report.

Goal 1: Transition E9-1-1 data to NENA NG9-1-1 model.

County's E9-1-1 data (structure points, road centerlines and ESZ polygons) were migrated to the NG9-1-1 data model and the NG9-1-1 data fields were initially attributed.

Goal 2: AGOL.

An AGOL account was configured for the field audit and ongoing E9-1-1 maintenance mapping. The AGOL data was made public via this link: <http://www.arcgis.com/home/item.html?id=5dfce772d0bd446e8f3a14c93> or accessed using ESRI's Explorer app for iOS/Android devices under "Chouteau County, MT PUBLIC MAP." A related public announcement was posted to the DES webpage (www.chouteaucountydes.com) and a newspaper press release published locally. County agencies were offered AGOL licensing/options and data access. To date, despite high interest, only the Roads Dept. became a named AGOL user. Some County GIS users utilize ArcReader or Explorer. The goal is to expand AGOL users - licensing costs are curbing participation.

Goal 3: Maintenance Mapping Program.

GIS/DES assigns new construction addresses and maintains the E9-1-1 system and GIS by processing telephone service orders and changes received from various sources. GIS/DES purchased a sub-meter GPS and tablet computer and were trained to map new construction with Collector. GIS/DES staff support our Consultant with ongoing maintenance mapping/field auditing. GIS/DES staff maintain the GIS via ArcGIS Pro.

Goal 4: GPS/GIS Field Audit.

Nearly 1,000 structures were audited by GIS/DES staff and Consultant (6 days/160 man hours afield). The field data collection system proved efficient/accurate. Over 700+ informative postcards requesting updated contact data were delivered - more than half were returned/processed by DES.

Goal 5: MSDI Theme Steward Submittal

An interim dataset was submitted June 2018.

Did the applicant receive an MLIA grant in fiscal year 2017?* No

Did the applicant receive an MLIA grant in fiscal year 2016?* No



BOARD OF COUNTY COMMISSIONERS
Chouteau County, Montana

P. O. Box 459
FORT BENTON, MONTANA 59442
TELEPHONE: 406-622-3631
FAX: 406-622-3012

COMMISSIONERS

Daren J. Schuster, Chairman
Robert J. Pasha
Clay Riehl

CLERK

Lana K. Claassen
REGULAR MEETINGS:
Every Monday and the first &
third Tuesday of the month
following the first Monday.

February 3, 2020

Erin Fashoway
State GIS Coordinator
Montana State Library
PO Box 201800
Helena, MT 59620-1800

Dear Ms. Fashoway,

This letter serves as my authorization of the FY2021 MLIA grant application submitted by Kellie Waldbillig on behalf of Chouteau County. I have read the application in its entirety, and I certify that the information and all statements in the application are true, complete, and accurate to the best of my knowledge. I further certify that Chouteau County is committed to funding its share of the project, including both pledged applicant cash and pledged applicant in-kind, as stated in the proposed project budget. I further certify that the proposed project, should it be approved for MLIA funding, will comply with all applicable state, local, and federal laws, regulations, and standards.

The Chouteau County authorizes the Montana State Library to publish the contents of this application and to use the contents of the application for training, promotional, or other purposes.

Finally, I 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.

Sincerely,

Daren J. Schuster
Commission Chairman

**Chouteau County Montana
Mapping & Addressing**



1308 Franklin
PO Box 459
Fort Benton, MT 59442

Kellie Waldbillig: Coordinator
Phone: 406-622-3022
Fax: 406-622-5781
Email: kelliebutler328@gmail.com

MONTH XX, 2020

Erin Fashoway
State GIS Coordinator
Montana State Library
MLIA 2020-2021 Grant
PO Box 201800
Helena, MT 59620-1800

OBJECT: Invoice for progress bill MILA 2020-2021 Grant

Erin,

Please find attached our invoice for progress billing on our MLIA 2020-2021 grant.

If you have any questions please feel free to contact me.

Sincerely,

Kellie Waldbillig
Chouteau County
9-1-1/GIS Coordinator/Deputy DES
406-622-3022
Kelliebutler328@gmail.com

**Chouteau County Montana
Mapping & Addressing**



1308 Franklin
PO Box 459
Fort Benton, MT 59442

Kellie Waldbillig: Coordinator
Phone: 406-622-3022
Fax: 406-622-5781
Email: kelliebutler328@gmail.com

MONTH XX, 2020

Erin Fashoway
State GIS Coordinator
Montana State Library
MLIA 2020-2021 Grant
PO Box 201800
Helena, MT 59620-1800

Work performed for MLIA 2020-2021 GIS project Chouteau County.

MLIA 2021 SOW GRANT #: MLIA_2021_XX

(% of tasks completed inserted here)

Contractual with MAPS our contract partner (XX% complete)

\$X,XXX.00

TOTAL INVOICE


\$X,XXX.00

Kellie Waldbillig
Chouteau County
9-1-1/GIS Coordinator/Deputy DES
406-622-3022
Kelliebutler328@gmail.com

MLIA GRANT BUDGET SUMMARY

Category	MLIA Summary	Applicant Summary			Funding Source Summary				Total:
	MLIA Share	Chouteau County, MT E-911 & GPS/GIS Project Cash	Chouteau County, MT E-911 & GPS/GIS Project In-Kind	Chouteau County, MT E-911 & GPS/GIS Project Subtotal	Funding Parter 1	Funding Partner 2	Funding Partner 3	Partner Subtotal	
a. Personnel			\$3,400.00	\$3,400.00				\$0.00	\$3,400.00
a.1. Fringe Benefits				\$0.00				\$0.00	\$0.00
b. Travel				\$0.00				\$0.00	\$0.00
c. Equipment				\$0.00				\$0.00	\$0.00
d. Supplies			\$50.00	\$50.00				\$0.00	\$50.00
e. Contractual	\$16,434.00			\$0.00				\$0.00	\$16,434.00
f. Other				\$0.00				\$0.00	\$0.00
Total:	\$16,434.00	\$0.00	\$3,450.00	\$3,450.00	\$0.00	\$0.00	\$0.00	\$0.00	\$19,884.00

MLIA GRANT DETAILED BUDGET

Tasks	Category Type	Funding Source	Hours	Rate	Cost
County resident & County agency coordination; GIS/DES	Personnel (incl. fringe benefits)	In-Kind	8	20	\$ 160.00
General Supplies/Copies	Supplies & Materials	In-Kind			\$ 50.00
Task 1.1.1 - Field audit the approximately 750 remaining rural structures; CNSLT; 750 rural structures x \$15/structure = 11,250; \$11,250/\$99 hr. = 113.64 hrs. est'd	Contractual	MLIA Grant Funds	114	99	\$ 11,286.00
Task 1.1.1 - Field audit the approximately 750 remaining rural structures; GIS/DES	Personnel (incl. fringe benefits)	In-Kind	114	20	\$ 2,280.00
1st Quarterly Report; GIS/DES	Personnel (incl. fringe benefits)	In-Kind	3	20	\$ 60.00
Task 2.1.1 - Attribute NG9-1-1 fields on newly collected roads and structures and field audit data; GIS/DES	Personnel (incl. fringe benefits)	In-Kind	30	20	\$ 600.00
Task 2.1.1 - Support GIS/DES attribution of NG9-1-1 fields on newly collected roads and structures and field audit data; CNSLT	Contractual	MLIA Grant Funds	12	99	\$ 1,188.00
2nd Quarterly Report; GIS/DES	Personnel (incl. fringe benefits)	In-Kind	3	20	\$ 60.00
Task 2.2.1 - Submit quarterly data updates to the County's mapped ALI vendor, including updated map doc(s) for test'g/tweak'g; CNSLT	Contractual	MLIA Grant Funds	16	99	\$ 1,584.00
Task 3.1.1 - Publish quarterly updated maps/data to AGOL & test linkages from the County's website; CNSLT	Contractual	MLIA Grant Funds	12	99	\$ 1,188.00
Task 3.1.2 - Ongoing GIS education/training efforts; CNSLT	Contractual	MLIA Grant Funds	4	99	\$ 396.00
Task 3.1.2 - Ongoing GIS education/training efforts; GIS/DES	Personnel (incl. fringe benefits)	In-Kind	4	20	\$ 80.00
3rd Quarterly Report; GIS/DES	Personnel (incl. fringe benefits)	In-Kind	3	20	\$ 60.00
Task 4.1.1 - Prepare a final digital dataset for the County to submit to the State including valid metadata for the geodatabase and feature classes developed; CNSLT	Contractual	MLIA Grant Funds	8	99	\$ 792.00
Task 4.1.1 - Submit a final digital dataset to the State including valid metadata for the geodatabase and feature classes developed; GIS/DES	Personnel (incl. fringe benefits)	In-Kind	2	20	\$ 40.00
Submit Final Status Report to the State Library; GIS/DES	Personnel (incl. fringe benefits)	In-Kind	3	20	\$ 60.00
					\$ -
					\$ -
		Totals:			\$ 19,884.00