Application

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

94399 - PONDERA COUNTY, MT - FY 2021 NG9-1-1 PROJECT

MSL Montana Land Information Act Grant

Status:	Submitted	**Original Submitted Date:**	02/13/2020 11:29 AM	**Submitted By:**	Melinda Kay Burns
		Last Submitted Date:	02/26/2020 10:24 AM	**Last Submitted By:**	Melinda Kay Burns

Applicant Information

Primary Contact:

Name:*	Mrs. Salutation	Melinda First Name	Kay Middle Name	Burns Last Name	
Title:	Pondera County DES				
Email:*	melinda.burns@ponderacounty.org				
Alternate Email	mk237mb@outlook.com				
Address:*	20 SW 4th Ave				

*	Conrad City	Montana State/Province	59425 Postal Code/Zip	
Phone:*	406-271-4040 Phone ###-###-####			Ext.
Alternate Phone	714-719-9806			
Fax:	406-271-4084			
Comments:				

Organization Information

Name:*	Pondera County
Organization Type:	County Government
Organization Website:	ponderacountymontana.org
Address:*	20 4th Ave SW

*	Conrad City	Montana State/Province	59425 Postal Code/Zip
Phone:*	406-271-4010		
Ext.			
Alternate Phone			
Fax:	406-271-4070		
Email address			
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:*	Pondera County, MT
Department:*	Pondera County Commissioners
Division/Section (if applicable):	Commissioner Thomas A Kuka
Mailing Address:*	20 SW 4th Ave
City:*	Conrad
County:*	Pondera
Zip Code:*	59425
Organization`s Main Phone Number:*	406-271-4040
Organization`s Fax Number:	

Primary Point of Contact

Salutation:*	Mrs.
Contact Name:*	Melinda K Burns
Contact Title:*	Pondera County Disaster & Emergency Services (DES) Coordinator
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:*	MLIA 20-21 Authorization.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:	3

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

Proposal Prepared By:*	Melinda K Burns
Executive Summary:*	

Please provide an executive summary of the proposed project.

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

Pondera County, MT has had an Enhanced 9-1-1 System based on GPS/GIS for over 17 years. We understand that we will eventually need to migrate our E-911 System to a NG9-1-1 platform. This application for MLIA funding is to supplement, upgrade and update our existing Enhanced 9-1-1 and GIS data to support local emergency response and Public Safety, as well as prep our datasets to readily transition to NG9-1-1.

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.

Item 1. of the MLIA Grant Priorities – Support GIS for Public Safety and Emergency Response –the MLIA program "…support(s) development of Boundaries, Addresses and Road Centerlines for NG9-1-1. Pondera County understands our E-911/GIS System will eventually be migrated to NG9-1-1. MLIA funding is needed to supplement, upgrade and update our existing data to facilitate that transition.

The DES Coordinator assigns new physical addresses to residents needing mail delivery/utilities, but does not catch every new structure. Without residential building permits, the County relies solely on residents to declare new structures. State electrical permit and phone service orders (adds/deletes/changes to landlines) are reviewed to try and identify new structures. Additional development is often "stumbled into," but every road isn't driven annually. Pondera County contracts for our GPS mapping 2-3 times a year. Since 2010, about 15 new structures a year were mapped.

To ensure accuracy, the ALI database is audited annually, comparing landline addresses to the GIS. Landlines are decreasing steadily though, so our ability to keep the GIS data up-to-date also decreases annually. As cellular devices and coverage improve, landlines are dropped for wireless. Wireless 9-1-1 calls are increasing dramatically, but wireless records aren't accessible. Pondera County manages 3,538 structures and 1,365 miles of road in the E-911/GIS. Most of this data, however, was collected 17+ years ago. Without a concerted effort to update the GIS now, the data value will keep diminishing.

NG9-1-1, a more detailed approach to routing of 9-1-1 calls based on geographic location, is imminent. For the eventual E-911 to NG9-1-1, migration, Pondera County needs accurate data. Up-to-date structure attributes and road centerlines will give dispatchers, emergency responders, the DES office and other County offices that rely on the GIS, a reliable package - thereby enhancing the overall E-911/GIS System. With the updated information we will be positioned to readily transition to NG9-1-1.

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.

Pondera County has used GPS/GIS since 2001 to keep our GIS current by GPS-mapping new roads and structures using standardized and sustainable methods. These efforts have supported the State's MSDI Structures and Addresses, as well as the "Transportation Theme." Until very recently, the DES Coordinator was the only GIS user. Dispatch relied on the GIS data to locate 9-1-1 callers, but other County offices relied solely on paper maps or atlases – without the benefit of details/attributes that digital access provided.

In 2017, Pondera County applied for and received funds from Phillips 66 (their oil pipeline bisects the County) – for mobile GPS/GIS. Eighteen (18) tablet computers were loaded with GIS and provided to local emergency responders with basic GPS/GIS training to assist emergency response. GIS software was also installed in the Clerk & Recorder, Commissioners and Treasurer's Offices to support address verifications. We understand "spreading the wealth" with GIS access to assist daily work flows. Pondera County wants to improve the substantial GIS dataset we invested in with the E-911 System. This project will result in improved accuracy and augmented information – to be used now and in the future by subsequent county stewards.

This investment will take advantage of local, regional and state funding, using available expertise to strengthen Montana's GIS. The result will be improved quality of life for the communities of Conrad, Valier, Brady, Dupuyer, Heart Butte and Ledger, as well as the rural residents and tribal members in the County and Montana citizens. GIS fosters better land use decisions - and promotes and supports local and regional economic development. Accurate data improves emergency response and supports downstream effects. Improving GIS data also helps utility companies with exact locations for repairs, replacements and new projects.

Public and private use of GIS is growing. The availability of this kind of information is coming to be expected. Improving Pondera County's Public Safety data creates a consistent, maintainable and accessible dataset serving the growing needs of public and private users. The basic need for accurate and up-to-date information to support accurate and efficient emergency response and disaster preparedness and mitigation efforts has not changed. As proposed, this project will result in better structure point data, support the increased number of GIS users in Pondera County and support continued mobile use of the GIS for current and future County needs.

Primary Project Manager Contact Information

Salutation:*	Mrs.
Name:*	Melinda K Burns
Title:*	Disaster & Emergency Services (DES) Coordinator
Email Address:*	melinda.burns@ponderacounty.org
Phone Number:*	406-271-4040

Secondary Project Manager Contact Information

Salutation:*	Ms.
Name:*	Kody Farkell
Title:*	Clerk & Recorder
Email Address:*	ponderaclerk@3rivers.net
Phone Number:*	406-271-4001

Organizational Capability

Organizational Capability:*

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

Tom Kuka, County Commissioner Chairman, will co-administer this grant. Tom served as the County Sheriff for 10 years until elected Commissioner in 2014. Tom attended the MT Law Enforcement Academy in Bozeman before serving the County - as a DARE Officer, Deputy, Chief Deputy, Undersheriff, then Sheriff. He serves on the Center for Mental Health, Airport, Weed, Park and Community Service County Boards. A lifelong resident of the County, rancher and enrolled member of the Blackfeet Indian Nation, Tom is supported by the Local Emergency Planning Commission (LEPC)/9-1-1 Board and the other County Commissioners, regarding overall contractual and grant administration.

Kody Farkell, Pondera County Clerk & Recorder (C&R) will support Tom Kuka to co-administer this grant. Appointed in 2013, elected to the position in 2014 and reelected in 2018, Kody attained a BS in Agricultural Business Management from Montana State University. Prior to being the C&R, Kody worked in personal and real estate loans and for the County Conservation District as District Administrator. A large part of that position was administering grants awarded from the DNRC and DEQ. Kody is currently the Secretary for the MT Association of Clerk and Recorders and a member of the Association's Legislative committee. Kody is also a Board Member of the Conrad Scholars, a member of their church finance council, and along with her husband owns a small local chemical business for which she has been the bookkeeper for the past 13 years. Kody will work with Tom and Melinda to make sure all documentation and reports are completed correctly and on time. Kody is supported by the LEPC/9-1-1 Board and Commissioners regarding contractual and grant administration.

The proposed project will be managed by the Disaster and Emergency Services (DES) Coordinator, Melinda Burns. Melinda attained a BS in Information Systems Business Management from CA State University Long Beach. Melinda attained a certificate in Project Management from the U of CA Irvine. Melinda worked full time while attending college full time. She was employed by the City of Irvine, CA during the early years of developing the city. After college, Melinda was hired by General Dynamics in San Diego, CA as a computer programmer for the business division. Later employment with TRW Credit Bureau division, now Experian, was her home for 25 years. During Melinda's tenure with Experian she attended UCI and completed her Certificate in Project Management. When Melinda's mother, who lives in Conrad, MT was placed into a nursing home, Melinda and her husband made the decision to move from

CA to MT to be near her family. LeAnn Hermance (former DES Coordinator) retired in June of 2019 and Melinda's employment started with the County in July of 2019. Melinda is active in the community and volunteers at Pondera County Medical Center at the extended care unit. She is also very active with the Presbyterian Church in Conrad. Melinda Burns is the County Coordinator for DES, Flood Plain, 911 Rural Addressing and Fire Wardens. She is responsible for working with (on the phone and in person) County landowners and residents on the assignment of all new structure/physical addresses, including road naming. There has been one State Disaster Declaration for Pondera County during her tenure, she continues to work with State, Federal and local officials to create a disaster resilient community. Melinda also chairs the LEPC, is a member of the District II Continuity of Operations/Continuity of Government networking group. Melinda is supported by Tom Kuka, Kody Farkell, the LEPC/9-1-1 Board and the other County Commissioners regarding overall project management.

Project Management

Project Management:*

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

1. Management Plan

Melinda Burns, as the County's defined PM, will be responsible for working with the State Library on quarterly grant progress reporting, invoicing, eventual data deliverables and the final project report. Melinda will work directly with the County's Consultant, managing the project schedule, workflows and communication/coordination. Melinda's tenure started in July 2019, so she inherited the current project (MLIA 2020_05) that will not be completed until June 30, 2020. Despite some initial issues that were worked out with the State Library staff, Melinda successfully took over the current grant's administration and reporting.

2. Past Record of Performance

Pondera County is applying for funding for Year 3 of a 4 year MLIA project. In Year 1, the County and their Consultant successfully developed an ArcGIS Online account, migrated the E-911 data to the NG9-1-1 models and set-up a field data collection system that allowed them to field verify over 900 urban structures (approximately half of the County's structures in communities). Public data was published and more detailed data distributed to County GIS users. In Year 2, an additional 900 urban structures were audited/verified (the remainder of urban structures) - and the resulting field data is now being processed. Year 3's efforts will shift to verifying half of the rural structures and rural road network - and Year 4 will complete the audit of addressed structure points and road centerlines. While Melinda Burns is relatively new to the overall project, the County Commissioners and the County's consultant have successfully completed Year 1's goals and are well underway with Year 2's as well. Melinda spent time afield last Fall assisting with field verification in Conrad and is working to maintain the current GIS, including the structure points/address database, and the E-911 system (e.g. the Master Street Address Guide or MSAG, hosted by CenturyLink). She has worked extensively with the County's Consultant for the past 6 months and been training to improve the current GIS mapping data for the County. By the time Year 3's project efforts start, Melinda will have even more experience with the MLIA process, by completing Year 2's progress reports for the 3rd and 4th quarter, coordinating with the State Library on the remaining invoicing and the final deliverables/data submittals. Melinda is also being supported through the application process and grant administration by a local peer/colleague, Kellie Waldbillig, who is with Chouteau County's GIS/9-1-1 Office, as they are successfully completing a highly similar multi-year MLIA project of the same nature.

3. Hiring a Consultant

This project will be managed by Pondera County and contracted to MaPS, Inc. We have an ongoing contract with MaPS, Inc. for GPS/GIS services and anticipate signing a Letter of Agreement (LOA) with MaPS, Inc., including this project's Scope of Work as an attachment, to cover the proposed project. Melinda will communicate with the State Library staff, coordinate the on-site field work, including scheduling, and monitor the project's progress, reporting to Tom and Kody. Melinda will also review all of the resulting project data as the project develops, meet the grant reporting requirements and coordinate the submittal of the final dataset(s).

a. MaPS, Inc. is managed by Matthew Pearce, its President and company Founder. Matt earned a B.S. in Geography with GIS/Cartography emphasis at the University of MN. His geography career has spanned 26 years and he is a certified Emergency Numbering Professional (ENP) and a member of the National Emergency Numbering Association (NENA). MaPS, Inc. Matt is also currently providing E-911 and GPS/GIS consulting services for a number of MT counties, including Pondera, Toole, Choteau, Valley, Granite and Mineral. MaPS, Inc. specializes in 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.

MaPS, Inc. has worked for Pondera County since July 2000 and successfully implemented the County's E-911 System and multiple E-911 & GPS/GIS contracts with other County and City agencies in MT and the region. MaPS, Inc.'s personnel have extensive experience in GPS field data collection, GIS development and E-911 implementation and have worked on over fifty projects in many states across the nation. MaPS, Inc. has successfully completed previous GPS/GIS projects of similar scope and has demonstrated a thorough understanding of the required services. Pondera County believes that MaPS, Inc. has provided a reliable and fair project cost that is a good use of MLIA grant funding.

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:	Matt Pearce

Invoicing Methodology

Please Attach Sample Invoicing Documents:*	MLIA_FY2021 Sample cover letter and 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.

Pondera County proposes the following **Goals**, Objectives and *Tasks* (presented in order of proposed completion/chronological order whenever possible; July 2020 - June 2021):

Goal 1: Rural GPS/GIS Field Review/Collection

The Fiscal Year grant cycle and Pondera County's location along the Rocky Mountain front (and its often sudden/extreme weather patterns) mean the optimal time for conducting fieldwork is during warmer/drier late summer/early Fall months. Therefore, the fieldwork is slated to be first.

 Objective 1.1: Aug. to Oct. 2020 – Rural GPS/GIS field review/collection - Year 3 of 4.

 Task 1.1.1: Pondera County will continue with the multi-year GPS/GIS field review of existing structures and collection/mapping of new structures that was started in 2018. Using our Consultant's *Field Data Collection System (e.g. wireless sub-meter GPS receiver & Collector software loaded onto a tablet computer), over 900 structures were field verified/reviewed and updated (primarily the west half of Conrad) in 2018 - and an additional 900 structures were audited in 2019 (the remaining structures in Conrad, as well as all of Brady, Dupuyer and Valier). We have 3,538 structure records - approximately 70% are urban (2,432) and 30% are rural (1,106). Communities were completed before the rural areas (denser structures = greatest benefit/least cost) because more 9-1-1 calls originate from communities.

The remaining rural structures, however, are widely scattered and will require significantly more time to canvass and additional expenses to reach them all (e.g. more miles driven = more fuel, more time afield = more lodging and per diem expenses, etc.). Previous/similar MLIA grants were approved at a per structure cost (includes labor, fuel, vehicle, per diem, etc.) of $9 per structure for urban collection. To offset the time and expense increases, the cost for rural field verification of structures was increased to $15/structure. As proposed, 650 rural structures will be reviewed and updated as part of Year 3's field efforts. At least 12-14 days afield each year are anticipated (estimated 100 hours each) in Years 3 and 4. DES staff will assist the Consultant with fieldwork for 2 days to gain firsthand knowledge of field procedures/methods and software/hardware.

Approximately half (as density varies) of the rural County area will be verified – structure x structure, road x road. Collector will be set-up to display existing road centerlines/points, structure/access points, driveways, etc., including 2019 NAIP aerial imagery as a basemap. Each structure's spatial location and GIS attribution will be directly reviewed and updated afield. Attribution may include owner name, resident name, structure type/description, remarks, etc.

 *Note: Due to the low development volume (average of 15 new structures per year since 2010) compared to the costs of the software, equipment and training, Pondera County has opted to not pursue development of an ArcGIS Online/Collector approach (at this time) for internal ongoing E-911 maintenance mapping. Pondera County will continue to rely on our current Contractor to perform these tasks and to ensure the resulting data dovetails with the County's current GIS data and dispatch mapping software requirements.

 Objective 1.2: Nov. 2020 - Feb. 2021 - Validate resident feedback and update the GIS.

Task 1.2.1: Resident feedback or updates received – whether from GPS fieldwork, reported in person, mailed- or called-in - will be validated by the DES Coordinator based on Geo_ID#'s. Landline records, E-911 data, parcel data, etc. will be contrasted against the GIS. Structure attribution will be revised accordingly.

After initial fieldwork has commenced and responses (in whatever form they come in) are received, the DES Coordinator will receive supplemental ArcGIS editing training (4 hours on-site) to support response processing. DES will use ArcGIS for GIS editing. Consultant will periodically transfer data to the County to edit. Once complete, our Consultant will transfer the data back. This workflow will allow for efficient editing by the DES and Consultant taking turns editing. Consultant will also provide the DES Coordinator with more Tech Support/training as needed (4 hours of remote/phone support included in this proposal).

Objective 1.3: Mar. 2021 – Submit updated GIS data to the Pondera County's vendors.

Task 1.3.1: Updated shapefiles of the County's recently verified roads and structure points will be supplied to/coordinated with the County's ENS vendor and an updated GDB to the County's mapped ALI vendor. Spatial coordinates (e.g. lat/long values) or other required fields/values will be included (as needed).

Goal 2: Maintain E-911 data using NENA NG9-1-1 standards.

Objective 2.1: July 1, 2020 through June 30, 2021 - Process Year 3's GPS/GIS field audit data against the NG9-1-1 framework and attribute new data acquired from ongoing 2020 E-911 maintenance mapping efforts.

Task 2.1.1: Changes to existing roads and structures require review of the NG9-1-1 field attribution and updating as needed (e.g. a road was re-aligned or a structure was re-addressed because their access/driveway changed). Any new roads and structures that are mapped (as part of ongoing E-911 maintenance mapping) will have the NG91-1 fields (that were added as part of Year 1's efforts on this project/goal) attributed by the Consultant. For instance, on any new 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. DES staff to provide support to Consultant as needed.

Objective 2.2: April to May 2020 – Test dispatch mapping software with updated dataset.

Task 2.2.1: Pondera County's mapped ALI vendor will be provided with the updated data and revised map document(s), for testing the revised formats. The E-911 System will need to function with the new NG9-1-1 data (e.g. landline 9-1-1 calls trigger correct map locations). Based on resulting error flagging/resolution, the data will be updated by the Consultant to meet the ALI Vendor's accuracy standards prior to dispatch load.

Goal 3: Maintain the County's GIS use/users and broaden such opportunities.

Objective 3.1: February 2021 to March 2021 – Maintain/update the ESRI ArcGIS Online (AGOL) account and published maps/data, as well as update the ArcReader tablets.

Task 3.1.1: In Year 1, the DES Office's ESRI license was used to set-up a County AGOL account for data management and collection (see Goal A.1). The DES office is the Administrator – managing access, content and privileges/security. As part of Year 1's project, digital maps and GIS data were shared to a broader audience/the public by sharing certain data and maps to "Everyone." The published maps/data were stripped of sensitive info (e.g. names, phone #'s, medical conditions, etc.) as they were intended for use by the general public. Detailed instructions for use of the Explorer App (for both Apple and Android users) were provided to the County, with the intent to publish them with links to the data to the County's website (but the County's website has not yet been updated with that info).

After the 2020 field audit has been completed and the data processed, the County's consultant will republish/update the County's above AGOL maps and update (as needed) links from the County's website to these publications (if the links have been posted). This maintenance effort will also include updating the 18 ArcReader datasets presently being used by some County emergency responders (e.g. DES, Law, Fire and EMS) utilizing ArcReader (free) with the DES dataset (e.g. tablet computers supported by GPS for navigation; update involves prepping microSD cards off-site and swapping the old microSD cards for new on-site).

Objective 3.2: April 2021 - May 2021 – Educate potential GIS users.

Task 3.2.1: The County AGOL account allows maps and data to be created/shared with multiple County GIS users (e.g. DES, Sheriff's Office, Commissioners, Roads Dept., etc.) and the Public. As part of Year 1's project, Pondera County staff users, on a "need-to-know" basis (e.g. Roads, Sheriff, Weeds etc.), were offered greater access via the purchase of a named user on the AGOL account. Pondera County had included two (2) named AGOL users/subscriptions in that Task (e.g. VIEWER1/VIEWER2) as well as an on-site Consultant training session to cover set-up/log-in info and use of Collector and/or Explorer to view/navigate (vs. ArcReader, which is what is currently in use). These users would have been given full

access to the data (e.g. via account credentials, with a specific user name/password). It was anticipated that maps/data with greater content enabled would be published/shared with these users. To-date, however, potential users have not expressed interest in additional capabilities and Year 1's tasks were deferred (to a later date/subsequent phase of the project).

As part of Year 3, the DES Office and the Consultant will again offer an on-site educational session (e.g. 2 hours) to other interested County offices and the Commissioners, reviewing the efforts of the overall project and discussing potential uses/users of the data. Licensing maintenance costs for the above named users are again included in this Year's task (e.g. $100 per named user, or $200 total), in hopes that additional users will be added. In the future, Pondera County may need more user licenses to provide viewer roles/access to other users (e.g. other County offices), while not over-sharing to the broader public. Some County users could transition into collector/editor roles as new GIS opportunities evolve. As part of this task, the Consultant will also provide an on-site, half-day, (up to 5 hours) AGOL training session to cover set-up/log-in info and use of Collector and/or Explorer to view/navigate the GIS data. If the County does not have any takers for the licenses and training, these costs will simply not be invoiced.

Goal 4: MSDI Theme Steward Data Submittal

 Objective 4.1: June 2021 - Submit an interim set of GIS data to the State.

Task 4.1.1: Structure points and road centerlines (ongoing E-911 data maintenance and Year 3's partial field audit/verification efforts) will be submitted to the appropriate MSDI theme stewards. To promote consistency and accuracy, the digital dataset will include 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_PONDERA_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 completed set of Pondera County project data - comprised of structure points and road centerlines that have been updated/attributed against the NENA NG9-1-1 model. The dataset will reflect a cumulative effort (e.g. Years 1, 2 and 3's field data of the 4 year project will be included).	4.1.1	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.

County (In-kind) Contributions

Commissioner Tom Kuka and Clerk and Recorder Kody Farkell will support the DES Coordinator, Melinda Burns, with contractual and grant administration. Melinda will provide project management/reporting, County/consultant coordination and structure point data validation support.

Commissioner Kuka anticipates providing 8 hours over the course of the project for contractual/grant administration, including Clerk and Recorder, DES and Consultant coordination, State progress reporting and AGOL training. Tom's annualized hourly rate (salary and benefits) is $29/hr., so his estimated 8 hours of labor contribution to the project is $232.

Clerk and Recorder Kody Farkell anticipates providing 8 hours over the course of the project for contractual/grant administration working with Commissioner Kuka, DES and the Consultant, State progress reporting and AGOL training. Kody's annualized hourly rate (salary and benefits) is $28.50/hr., so her estimated 8 hours of labor and training contribution to the project is $228.

Melinda Burns (DES) will support grant administration and quarterly State progress reporting with at least 11 hours. DES will also be the primary point of contact for coordination with the Consultant for the field review/collection process and structure point validation support (2 days or 16 hours afield) and between the Consultant and the other County staff for training (5 hours) and technical support. DES will be trained on intermediate ArcGIS editing (4 hours) as well as the coordination of and participation in the project update/educational session (2 hours). DES will also provide the validation of the structure point responses, which is estimated to require approximately 40 hours of labor. DES's estimated labor contribution will be approximately 78 hours. At a labor rate of $24/hr., DES's estimated contribution will cost $1,872 and is provided to the project out of the DES budget. Supplies/copies are also anticipated at $50 during the project period.

The following costs include software licenses/subscriptions, contracted services, in-kind labor, etc., for the proposed project:

1.1. Rural GPS/GIS Field Review/Collection – Year 3 of 4.

1.1.1. Field verify 650 structures x $15/ea.; $9,750; estimated 98.5 hrs. DES to support field verification 2 days afield; 16 hrs.

1.2. Validate resident feedback and update the GIS.

1.2.1. ArcGIS editing training provided to DES; on-site Trainer (4') & Trainee (4'); 8 hours. DES response processing (40 hours) with ongoing Consultant Tech Support (4 hours); 52 hours total.

1.3. Submit updated GIS data to the County's vendors.

1.3.1. Updated GIS data supplied to/coordinated with the County's ENS & mapped ALI vendors; 4 hours.

2.1. Maintain E-911 data using NENA NG9-1-1 standards.

2.1.1. NG9-1-1 field attribution; 20 hours.

2.2. Test dispatch mapping software with updated dataset.

2.2.1. Map document update, dispatch software vendor coordination, testing/tweaking; 12 hours.

3.1. Maintain/expand the County's GIS use and user base.

3.1.1. On-line map re-publishing, test website linkages, as well as tablet dataset updating; 20 hours.

3.2. Educate potential GIS users.

3.2.1. On-site project review and education session (2 hours each for Consultant and DES), ongoing AGOL named user license maintenance costs ($200) and half day AGOL/GIS training (5 hours each for Consultant and DES).

4.1. MSDI Theme Steward Data Submittal.

4.1.1. Digital dataset with valid metadata prepared by the Consultant for the County/DES (8 hours); DES submittal of GIS dataset to the State (2 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_PONDERA_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_PONDERA_Detailed_Budget.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	$17,769.00
Other	$200.00
Totals	$17,969.00

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.

Pondera County recognized the benefits of having digital map data and a GIS and started the development of them 20 years ago to support their goal of implementing their E-911 System. After their E-911 System went on-line, the County continued their partnership with their E-911 & GPS/GIS consultant to continually maintain their E-911 and GIS data. Numerous sources (field verification, telephone service order activity, parcel/deed transfers, commercial building permits, State electrical permits, word-of-mouth, Postal coordination, etc.) are used to identify growth and change. Ongoing E-911 & GIS maintenance of the County's structure points and road centerlines is funded through the current DES budget and through collection of wireless and landline telephone surcharges (collected at the State level and doled back to the County quarterly based on population/percentages). The County GIS data adheres to NENA and Postal formats and addressing standards - and now, with the opportunity afforded by the MLIA program, the County GIS data meets NG9-1-1 formats and standards as well.

Local users of GIS data will continue to be supported by the County and the DES office with regular updating of the proffered datasets - including updates to on-line public data and the more detailed ArcReader tablet datasets. The County will seek additional ways to develop new GIS users with technological support and software advances. The County will also continue to work with the State sharing the road centerlines and structure point data that have augmented by this opportunity - both for the Cadastral project and the NG9-1-1 initiative.

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.

MLIA_2020_05 Progress Report:

Goal A: GPS/GIS Field Audit

Objective A.1 – (Year 2 of 4) GPS/GIS Field Audit

Task A.1 – GPS/GIS Field Audit; *DONE11/2019 - the east half (remainder) of Conrad was field verified, as well as the communities of Brady, Dupuyer and Valier; 900+ structure points were updated.*

Task A.2 – Validate resident feedback/update GIS; *Pending - DES ArcGIS editing training for resident feedback processing delayed; now scheduled for March 2020.*

Task A.3 – Update ENS and mapped ALI vendors; *Pending - GeoComm's mapped ALI software, GeoLynx, scheduled for March 2020. RAVE ENS system not being utilized - after the RAVE contract renews in 2021, County intends to replace their ENS vendor/software – so ENS update deferred.*

Goal B: E-911 data maintenance against the NENA NG9-1-1 model

Objective B.1 – Process E-911 maintenance mapping data & field audit data against the NG9-1-1 GDB framework

Task B.1 – Data attribution of NG9-1-1 fields on all new data; *Pending - during Valier field verification/audit efforts (note dates above), 8 more new structures and 3 roads were collected as part of ongoing E-911 maintenance mapping services; the new structures and roads will be processed against the NG9-1-1 dataset and attributed accordingly; prcs'g delayed; now scheduled for March 2020.*

Objective B.2 – E9-1-1 dispatch mapping software testing

Task B.2 – Test dispatch mapping software with updated dataset; *Deferred - County was told 8/2018 that GeoLynx software was to be sun-setted 12/2019. GeoComm quoted County to upgrade to their new "Dispatch Map" and County undecided due to high cost. Current GeoLynx set-up functions (9-1-1 caller locations plot with ALI feed) well and modifying software for NG9-1-1 attribution offers no extra benefit. New mapped ALI specs would require "morphing" data, so County deferring for now until a software vendor/choice made.*

Goal C: Maintain the County's GIS use & users & broaden such opportunities

Objective C.1 – Update the County's on-line published maps/data and update off-line user datasets

Task C.1 – Republish/update the AGOL maps/data and update the 18 ArcReader datasets on local/tablet computers. *Pending - the 2019 field verification was completed, but the field data has not yet been processed/attributed. URL links to the on-line data with instructions for Explorer app use have not yet been posted to the County's website – once they are, testing can occur. An interim data update was completed on-site 12/2019 (e.g. DES PC, Courthouse Server, and select tablet computers that were being used); next update scheduled for 4/2020.*

Objective C.2 – Educate potential County AGOL users/add named AGOL viewers/users

Task C.2. - County agencies offered ESRI AGOL licensing/training; *Deferred - County would like to defer this task to a later date/subsequent phase of the multi-year project. The County received 18 tablet computers in 2017 (funded by Phillips 66, a local oil producer) and deployed them with the County's data accessible via ArcReader. To-date, the tablets are only being utilized (actively) by a handful of users. At present, potential users have not expressed any interest in additional capabilities. The County will continue to keep a lookout for potential users and perhaps this task can be added into one of the remaining phase's (Year 3 or 4) application.*

Goal D: MSDI Theme Steward Data Submittal

Objective D.1: Submit an interim set of GIS data to the State

Task D.1: Structure points/road centerlines (results of NG9-1-1 transition & Year 1 and 2's field audit) will be submitted to State with valid metadata. *Pending - scheduled for 6/2020*

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.

MLIA_2019_12 Progress Report:

Goal A: GPS/GIS Field Audit

Objective A.1 – (Year 1 of 4) GPS/GIS Field Audit; *DONE*

Task A.1 – GPS/GIS Field Audit (900 Structures); C*ompleted 9/2018. The west half of Conrad was field verified; 900+ structure points were updated.*

Task A.2 – Validate resident feedback/update GIS; *Started 10/2018 - completed 12/2018. DES was trained on GIS data editing for resident feedback processing.*

Task A.3 – Update ENS and mapped ALI vendors; *GeoComm's mapped ALI software, GeoLynx updated 11/18. RAVE ENS system not being utilized - after the RAVE contract renews in 2021, County intends to*

replace their ENS vendor/software.

Goal B: Adapt the GIS to reflect NENA NG9-1-1 model

Objective B.1 – Transform E-911 data to NG9-1-1 framework; *DONE*

Task B.1 – The State's NG9-1-1 file GDB framework acquired; *DONE 9/18*

Objective B.2 – Migrate the GIS data into NG9-1-1 framework; *DONE*

Task B.2 – Migrate E-911 data into NG9-1-1 model and attribute accordingly; *DONE 12/18*

Objective B.3 – Test dispatch mapping software with updated dataset

Task B.3 – Coordinate updated data/map docs with mapped ALI vendor for testing revised formats; *Deferred – see FY_2020_05 Progress Report.*

Objective B.4 – Audit MSAG/ESZ data against GIS; *Deferred*

Task B.4 – Review MSAG against ESZs & update; *Deferred - auditing MSAG/ESZ data against GIS deferred to Year 4 - as a final "Spring 2022" task – conducted after all field verification/updates made to road centerlines/structure points County-wide.*

Goal C: Broaden the County's GIS opportunities

Objective C.1 – Establish AGOL account; *DONE*

Task C.1 – ArcGIS Online account set-up; *DONE*

Objective C.2 – Digital map publishing; *Pending*

Task C.2 – Publish County maps & website linkages; *Pending - GIS data published to AGOL. Instructions to be posted to County website regarding useage/access - website not yet updated.*

Objective C.3 – Educate potential County AGOL users; Deferred

Task C.3. - County agencies offered ESRI AGOL licensing/training; *Deferred – see FY_2020_05 Progress Report.*

Goal D: MSDI Theme Steward Data Submittal; DONE

Objective D.1: Submit an interim set of GIS data to the State; DONE

Task D.1: *Structure points/road centerlines (results of NG9-1-1 transition & Year 1's field audit) were submitted to State with valid metadata 6/2019.*

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.

MLIA_2019_11 Progress Report:

Goal:

 Goals/objectives: The Pondera County Clerk & Recorder staff has been working on gathering images of all COS's, surveys, and formatting/saving them in a way that they will be able to be loaded into an electronic plat book.

Schedule: On Schedule, converting and re-naming of all files to be a time consuming project.

Timeline: Remained in contact with Stahly Engineering on the progress they expect to complete the actual plat book as soon as they receive the files

Financial: No expected changes to the approved budget

QTR2: Goals/objectives: Pondera County Clerk & Recorder has been working on gathering images of all COS's, surveys, formatting/saving in a way that will be able to be loaded into an electronic plat book. February 21, first batch of images sent to Stahly Engineering.

Schedule: Behind where we expected to be at this time, due to staffing in the Clerk & Recorder's office, converting and re-naming tasks attained around regular duties and new employee training, in contact with the Engineer.

QTR3: Nochanges to the approved budget Pondera County Electronic Plat Book MLIA_2019_11

Goals/objectives: The Pondera County Clerk & Recorder staff has been gathering images of COS's, surveys, and formatting/saving them in a way that they will be able to be loaded into an electronic plat book. February 21, the first batch of images sent to Stahly Engineering.

Schedule: On schedule for this project. Clerk is dedicated to completing the file conversions passed on to Stahly Engineering in contact with Engineer.

No expected changes to the approved budget

QTR 4: Goals/objectives: All images of surveys recorded with the County Clerk's office converted data to pdf, re-named, and submitted to Stahly Engineering. The staff at Stahly Engineering loaded all documents

to the electronic plat book. June 20 training, at which time survey will be available to the public.

 Schedule: Completed the project on schedule on time

Did the applicant receive an MLIA grant in fiscal year 2017?*	No
Did the applicant receive an MLIA grant in fiscal year 2016?*	No
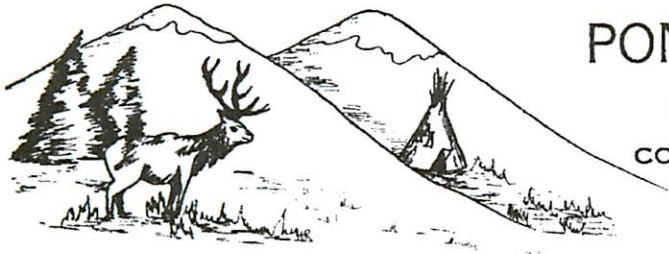
PONDERA COUNTY

20 4TH AVENUE S.W.

CONRAD, MONTANA 59425
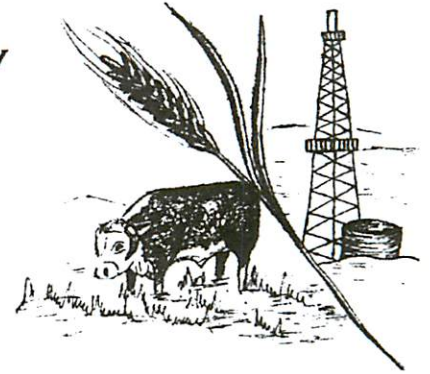
February 18, 2020

Erin Fashoway
State GIS Coordinator
Montana State Library
P.O. Box 201800
Helena, MT 59620-1800

This letter serves as my authorization of the FY2021 MLIA grant application submitted by Melinda Burns on the behalf of Pondera 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 Pondera 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 Pondera County authorizes the Montana State Library to publish the contents of this application and to use the contents of this application for training, promotional, or other purposes.

Finally, I certify that I am authorized to enter into a binding agreement with the Montana State Library to obtain a grant if this application receives approval.

Sincerely,

Tom Kuka
Pondera County Commissioner
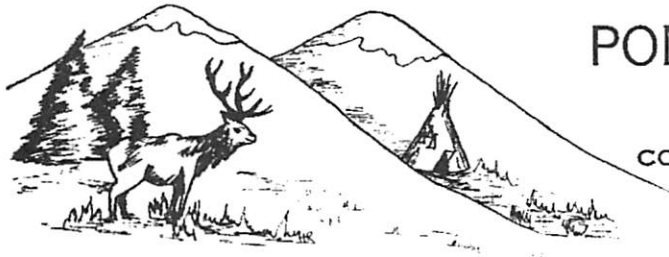
PONDERA COUNTY

20 4TH AVENUE S.W.
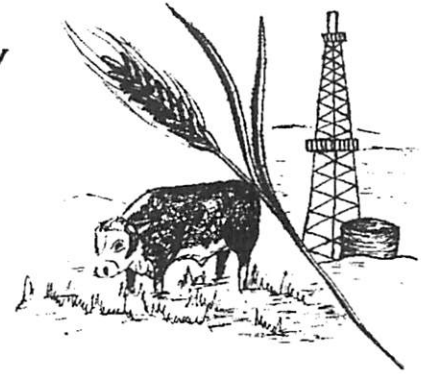
CONRAD, MONTANA 59425

Month ##, 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 MLIA 2020-2021 grant*

Erin,

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

If you have any questions feel free to contact me.

Sincerely,

Melinda Burns
Pondera County, MT
9-1-1/GIS Coordinator DES
20 SW 4ᵗʰ AVE
Conrad, MT 59425
406-271-4040
melinda.burns@ponderacounty.org

PONDERA COUNTY

20 4TH AVENUE S.W.

CONRAD, MONTANA 59425

Month ##, 2020

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

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Sincerely,

Melinda Burns
Pondera County, MT
9-1-1/GIS Coordinator DES
20 SW 4th AVE
Conrad, MT 59425
406-271-4040
melinda.burns@ponderacounty.org

MLIA Grant Project Timeline

Grant Project Title	PONDERA COUNTY, MT - FY 2021 NG9-1-1 F
Project Manager	MELINDA BURNS

Applicant Organization:	PONDERA COUNTY, MT
Date	2/18/20

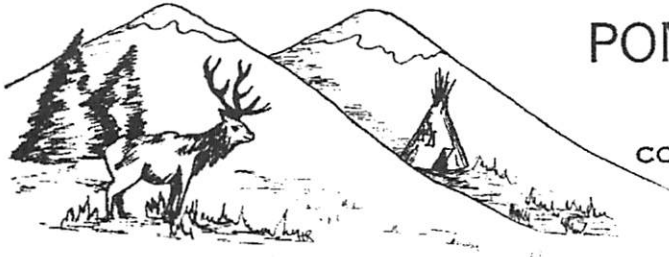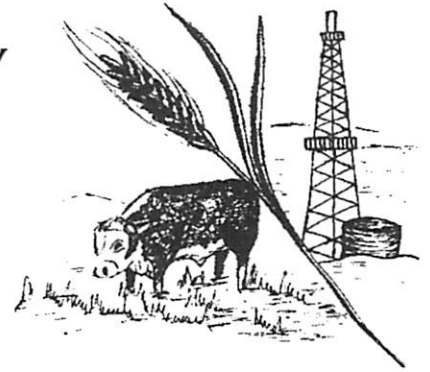| Goal, Objective, Task Number	Goal, Objective, Task Title/Short Description	State Date	Completion Date	DURATION (day)
1	**Rural GPS/GIS Field Review/Collection.**			
1.1	Complete the GPS/GIS field verification between August and October.	7/1/20	10/31/20	120
1.1.1	Field verify 650 rural structures.	7/1/20	10/31/20	120
	Q1 Report.	9/29/20	9/30/20	1
1.2	Validate resident feedback and update the GIS.	11/1/20	2/28/21	117
1.2.1	DES Coordinator ArcGIS editing training/Consultant support; GIS data QA/QC and updating.	11/1/20	2/28/21	117
1.3	Update ENS/Mapped ALI vendors.	3/1/21	3/31/21	30
1.3.1	Submit updated/attributed GIS data to the County's software suppliers.	3/1/21	3/31/21	30
2	**Maintain E-911 data using NENA NG9-1-1 standards.**			
2.1	Process Year 4's field audit data against the NG9-1-1 framework - and attribute any new data from ongoing E-911 maintenance mapping.	11/1/20	2/28/21	117
2.1.1	Review NG9-1-1 fields on existing data and populate same on newly collected roads and structures.	11/1/20	2/28/21	117
	Q2 Report.	12/29/20	12/30/20	1
2.2	Test the dispatch mapping software with updated GIS data.	4/1/21	5/30/21	59
2.2.1	Provide the County's mapped ALI vendor with updated GIS data for testing; revise data as needed.	4/1/21	5/30/21	59
3	**Maintain the County's GIS use/users & broaden GIS opportunities.**			
3.1	Maintain/update the AGOL published maps/data and ArcReader tablet data.	2/1/21	3/31/21	60
3.1.1	The updated GIS data will be republished online and the County website's URL links will be tested. ArcReader tablet data will also be updated.	2/1/21	3/31/21	60
	Q3 Report.	3/29/21	3/30/21	1
3.2	Educate potential GIS users.	4/1/21	5/30/21	59
3.2.1	Offer on-site GIS educational session; 2 named user licensing costs and AGOL training	4/1/21	5/30/21	59
4	**MSDI Theme Steward Data Submittal**			
4.1	Submit an interim set GIS data to the State.	6/14/21	6/18/21	4
4.1.1	New structure points and road centerlines from the Fall 2020 field review/collection and all existing E-911 data will be submitted to the MSDI theme stewards (including metadata).	6/14/21	6/18/21	4
	Final Project Status Report.	6/17/21	6/18/21	1

Timeline columns: Quarter 1 (July, August, September), Quarter 2 (October, November, December), Quarter 3 (January, February, March), Quarter 4 (April, May, June), each month divided into weeks 1–5.

Category	MLIA Summary	Applicant Summary			Funding Source Summary				Total:
	MLIA Share	PONDERA COUNTY, MT E-911 & GPS/GIS Project Cash	PONDERA COUNTY, MT E-911 & GPS/GIS Project In-Kind	PONDERA COUNTY, MT E-911 & GPS/GIS Project Subtotal	Funding Parter 1	Funding Partner 2	Funding Partner 3	Partner Subtotal	
a. Personnel			$2,332.00	$2,332.00				$0.00	$2,332.00
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	$17,769.00			$0.00				$0.00	$17,769.00
f. Other	$200.00			$0.00				$0.00	$200.00
Total:	$17,969.00	$0.00	$2,382.00	$2,382.00	$0.00	$0.00	$0.00	$0.00	$20,351.00

MLIA GRANT BUDGET SUMMARY

MLIA GRANT DETAILED BUDGET

Tasks	Category Type	Funding Source	Hours	Rate	Cost
Commissioner grant administration/C&R & DES support & coordination	Personnel (incl. fringe benefits)	In-Kind	8	$ 29.00	$ 232.00
C&R grant administration/Cmsnr & DES support & coordination	Personnel (incl. fringe benefits)	In-Kind	8	$ 28.50	$ 228.00
General Supplies/Copies					$ 50.00
1. Rural GPS/GIS Field Review/Collection.					
1.1. Complete the GPS/GIS field verification between August and October.					
1.1.1. Consultant ield verify 650 rural structures (x $15/structure = $9,750; $9750/$99 per hr. = estmt'd 98.5 hrs.)	Contractual	MLIA Grant Funds	98.5	$ 99.00	$ 9,750.00
1.1.1. DES; Assist 2 days afield with verification efforts.	Personnel (incl. fringe benefits)	In-Kind	16	$ 24.00	$ 384.00
DES Q1 Report.	Personnel (incl. fringe benefits)	In-Kind	2	$ 24.00	$ 48.00
1.2. Validate resident feedback and update the GIS.					
1.2.1. DES/trainee ArcGIS editing training	Personnel (incl. fringe benefits)	In-Kind	4	$ 24.00	$ 96.00
1.2.1. Consultant/trainer ArcGIS editing training & ongoing tech support	Contractual	MLIA Grant Funds	8	$ 99.00	$ 792.00
1.2.1. DES resident feedback processing	Personnel (incl. fringe benefits)	In-Kind	40	$ 24.00	$ 960.00
1.3. Update ENS/Mapped ALI vendors.					
1.3.1. Consultant submit updated/attributed GIS data to the County's software suppliers.	Contractual		4	$ 99.00	$ 396.00
2. Maintain E-911 data using NENA NG9-1-1 standards.					
2.1. Process Year 3's field audit data against the NG9-1-1 framework - and attribute any new data from ongoing E-911 maintenance mapping.					
2.1.1. Consultant review NG9-1-1 fields on existing data and populate same on newly collected roads and structures.	Contractual	MLIA Grant Funds	20	$ 99.00	$ 1,980.00
DES Q2 Report.	Personnel (incl. fringe benefits)	In-Kind	2	$ 24.00	$ 48.00
2.2. Test the dispatch mapping software with updated GIS data.					
2.2.1. Provide the County's mapped ALI vendor with updated GIS data for testing; revise data as needed.	Contractual	MLIA Grant Funds	14	$ 99.00	$ 1,386.00
3. Maintain the County's GIS use/users & broaden GIS opportunities.					
3.1. Maintain/update the AGOL published maps/data and ArcReader tablet data.					
3.1.1. Consultant will republish updated GIS data online and the County website's URL links will be tested. ArcReader tablet data will also be updated.	Contractual	MLIA Grant Funds	20	$ 99.00	$ 1,980.00
DES Q3 Report.	Personnel (incl. fringe benefits)	In-Kind	2	$ 24.00	$ 48.00
3.2. Educate potential GIS users.					
3.2.1. Consultant provides on-site GIS educational session; and AGOL training.	Contractual	MLIA Grant Funds	7	$ 99.00	$ 693.00
3.2.1. DES offers on-site GIS educational session; and AGOL training	Personnel (incl. fringe benefits)	In-Kind	7	$ 24.00	$ 168.00
3.2.1. Two (2) named user ESRI licensing costs	Other	MLIA Grant Funds	2	$ 100.00	$ 200.00
4. MSDI Theme Steward Data Submittal					
4.1. Submit an interim set of GIS data to the State.					
4.1.1. Consultant prepare final digital dataset of new structure points and road centerlines from the Fall 2020 field review/collection and all existing E-911 data to submit to the County/DES (including metadata).	Contractual	MLIA Grant Funds	8	$ 99.00	$ 792.00
4.1.1. County/DES submit final digital dataset of new structure points and road centerlines from the Fall 2020 field review/collection and all existing E-911 data to the MSDI theme stewards (including metadata).	Personnel (incl. fringe benefits)	In-Kind	2	$ 24.00	$ 48.00
DES final project status report.	Personnel (incl. fringe benefits)	In-Kind	3	$ 24.00	$ 72.00
		Totals:			$ 20,351.00