MONTANA LAND INFORMATION ACT GRANT APPLICATION STATE FISCAL YEAR 2024
JULY 1, 2023 – JUNE 30, 2024

BROADWATER COUNTY NG9-1-1 DATA TRANSPOSITION

January 13, 2023

TABLE OF CONTENTS

APPLICATION FOR FY2024 MLIA GRANT FUNDING

SECTION 1 – ORGANIZATION, PARTNER, AND PROPOSAL INFORMATION

Primary Applicant Contact Information (Please fill this section out in its entirety)	
Name of Agency/Entity:	Broadwater County
Department:	Planning & Community Development
Division/Section:	Addressing
Street:	515 Broadway St.
City:	Townsend
County:	Broadwater
State:	Montana
Zip Code:	59644
Project Manager Contact Information:	
Name:	Tacy Swanton
Title:	Community Development & Planning Assistant
Email Address:	tswanton@co.broadwater.mt.us
Phone Number:	(406) 266-9211
Fax Number:	N/A
Secondary Project Manager Contact Information:	
Name:	Nichole Brown
Title:	Planning & Community Development Director
Email Address	planning@co.broadwater.mt.us
Phone Number:	(406) 266-9214
MLIA Grant Funding Request & Match:	
Total Requested MLIA Funds:	$29,680
Total Matched Funds:	$2,100

Proposal Information	
Date Submitted:	February 14, 2023
Identified Grant Priority:	NG9-1-1
Annual or Multi-Year Proposal:	Annual
Proposal Prepared By:	Tacy Swanton – Broadwater County
Short Title of Proposal:	Broadwater County NG9-1-1 Data Transposition

Executive Summary:

Broadwater County is now in a position where the inter-county agencies have realized that there are serious discrepancies with their current addressing & E-911 system. As a rural county with low population density, having a concise addressing system that is reliable and current is integral to first response. The county has researched other NG-9-1-1 projects in the state and realizes the standards that they will be required to meet in the years to come as the statewide transition is implemented. The proposed phase of the Next Generation 9-1-1 transition will lay the framework for National Emergency Number Association (NENA) standards. This phase of the project will aim at building a reliable database that is ready for NENA assessment, including road centerline data, address structures, PSAPs, Emergency Service Boundaries, etc. Broadwater County has contracted with Great West Engineering. Great West's GIS team has the capabilities to build a GIS framework to support the next steps of the NG-9-1-1 transition. Great West will provide services to both build and respond to post assessments, after running assessment scripts to identify discrepancies in the current E-911 tables. The upcoming statewide assessment system will be utilized.

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SECTION 2 – RELEVANCE

This project aims to benefit the Montana State Library's addressing data (structure) by producing a dataset that is compliant with NENA standards as well as laying a foundational go-by for the county to continue maintenance and updates to the data down the road, in addition to facilitating and building necessary GIS inputs for NG-9-1-1 implementation. Currently, the county lacks any substantial GIS framework in any division. This phase of the project will aim at building a reliable database that is ready for NENA assessment, including road centerline data, address structures, PSAPs, Emergency Service Boundaries, etc. This project will not only be of benefit to the Montana State Library by providing NENA compliant data, but also across agencies within the county including providing the county with their own road network, a reliable structure dataset, and the means to build out their GIS capacity to public works and make data that can be shared county and agency wide. This project aligns with Tier 1 Grant Priorities such as developing Public Safety Answering Point (PSAP) boundaries, emergency service boundaries, as well as building a NENA compliant road centerline dataset. Another priority of this project will be to begin preliminary QAQC of current/previous address structure placement from the current E-911 system.

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SECTION 3 – PUBLIC BENEFIT

1.) This project aims to benefit the Montana State Library's addressing data (structure) by producing a dataset that is compliant with NENA standards as well as laying a foundational template for the county to continue maintenance and updates to the data down the road. Another theme that will be derived from the deliverable data is a road centerline dataset that will be NENA compliant that can be utilized with the transition of MSDI transportation themes.

2.) This project will not only be of benefit to the Montana State Library by providing NENA compliant data, but also across agencies within the county including providing the county with their own road network, a reliable structure dataset, and the means to build out their GIS capacity to public works and make data that can be shared county and agency wide. While the goal is to provide a better framework for emergency response to county residents, the GIS system that will be built can be expanded to benefit a number of agency sectors within Broadwater County.

3.) Public benefits to the public include an in depth QAQC of existing structures and a phased approach to bringing their emergency response system to NG-9-1-1.This project will also lend in providing publicly available data in the form of web map and web map - applications. This project would not only benefit the county and state, but also the wellbeing of all Broadwater County residents. This initial phase of the project will lay the first steppingstone in creating a safer and more resilient community.

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SECTION 4 – PROJECT MANAGEMENT AND ORGANZIATIONAL CAPABILITY

Broadwater County has extensive experience applying and managing grant awarded projects. Tacy Swanton will be responsible for working with Montana State Library to provide quarterly reporting, invoicing, and forthcoming data deliverables. Tacy will be the primary point of contact with the hired consultants (Great West Engineering and Geodata), managing the project scheduling, meeting coordination, etc.

The Secondary Project Manager, Nichole Brown will provide support to the Project Manager and the Contractor. Nichole has been working with the Broadwater County GIS dataset since 2004.

The Contractor, Great West Engineering & Matt Blassic, will be responsible for execution of items listed in the Scope of Work. This will include execution of all GIS related items in the provided Scope of Work. Matt comes with over 5 years of professional experience in both the public and private sectors, working for Montana DNRC's Trust Lands Management Division prior to Great West Engineering. Matt's qualifications include a Bachelor's of Science with a focus on GIS and Cartography from the University of Montana. Matt has been the on-call rural addressing specialist for Meagher County since January of 2021 and continues to work with the county on all GIS related matters as well as being a constant resource for Broadwater County.

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SECTION 5 – SCOPE OF WORK

Goal 1.　　　Analyze Existing Structures and Road Centerline Datasets to Assess Against E-911 MSAGs

　　Objective 1.1.　　Project Startup & Kickoff Meeting

　　　　Task 1.1.1.　　Kickoff Meeting – Contractor will host meeting. Meeting invitees will be comprised of Broadwater County Dispatch & Sheriffs' Department, Contractor's hired consultant, the Agency, and relevant inter-county departments to review project.

　　　　　　　　-Completion Date:　June 30, 2023

　　Objective 1.2.　　Create NENA Compliant Road Centerline & Structures GIS Datasets

　　　　Task 1.2.1.　　Create NENA Compliant Road Centerline & Structures GIS Datasets – Work with the Agency to transform the existing Road Centerline GIS dataset to the NENA compliant data standard.

　　　　　　　　-Completion Date:　October 1, 2023

　　　　Task 1.2.2.　　Create NENA Compliant Road Centerline & Structures GIS Datasets - Work with the Agency to transform the existing Structures GIS dataset to the NENA compliant data standard.

　　　　　　　　-Completion Date:　October 1, 2023

　　　　Task 1.2.3.　　Analyze Existing Address Structures and QA point placement against the most current available aerial imagery, and other relevant GIS datasets, to verify structure location.

　　　　　　　　-Completion Date:　October 1, 2023

　　Objective 1.3.　　Validate Road Centerlines and Structures

　　　　Task 1.3.1.　　Use the Montana State Library *Data Validation & Aggregation Tool* to validate Broadwater County Road Centerlines and Structures Datasets against the state standards and 9-1-1 Master Street Address Guide (MSAG), Automatic Location Identifier (ALI) datasets.

　　　　　　　　-Completion Date:　October 10, 2023

　　Objective 1.4.　　Improve NENA Compliant Road Centerline and Structures Data

　　　　Task 1.4.1.　　Use the results from the data validation tool to make needed changes.

　　　　　　　　-Completion Date:　January 15, 2024

　　Objective 1.5.　　Revalidate Road Centerlines

　　　　Task 1.5.1.　　Use the State's *Data Validation & Aggregation Tool* to validate the data corrections made in Task 1.4.1.

　　　　Task 1.5.2.　　February 1, 2024

Goal 2.　　　Review and Build NENA compliant Emergency Service Boundaries

　　Objective 2.1.　　Compile Existing Boundaries

　　　　Task 2.1.1.　　Collect Existing Boundary Data – Compile existing emergency jurisdictional information and produce draft boundaries and or generate them by collaborating with county emergency response representatives. This will involve work by Contractor's hired consultant to both research as

well as generate any draft changes to work with responder representatives from both Broadwater County & neighboring jurisdictions.
-Completion Date: December 1, 2023

Objective 2.2.   Validate Emergency Service Boundaries Data

Task 2.2.1.   Use the Montana State Library *Data Validation & Aggregation Tool* to validate Broadwater County Emergency Service Boundaries datasets against the state standards.
-Completion Date: December 1, 2023

Objective 2.3.   Improve Emergency Services Boundaries Data

Task 2.3.1.   Use the results from the data validation tool to make needed changes.
-Completion Date: February 1, 2024

Objective 2.4.   Revalidate Emergency Service Boundaries

Task 2.4.1.   Use the State's *Data Validation & Aggregation Tool* to validate the data corrections made in Task 2.3.1
-Completion Date: February 15, 2024

Task 2.4.2.   Complete and Finalize Emergency Service Boundaries – Have final boundaries ready to bring to county agencies and neighboring county agencies and have all geometry fixed to current administrative PSAP boundaries.
-Completion Date: March 10, 2024

Goal 3.   Prepare Existing Data from Goals 1 & 2 for State Assessment

Objective 3.1.   Compile Geodatabase & Spatial Data for Assessment

Task 3.1.1.   Run Topology on Datasets developed in previous tasks and goals.
-Completion Date: April 1, 2024

SUBSECTION 5 – DELIVERABLES

1. *NENA Compliant NG9-1-1 Road Centerline Dataset and associated metadata records*
2. *NENA Compliant NG9-1-1 Structure Centroid Dataset and associated metadata records*
3. *NENA Compliant NG9-1-1 Emergency Service Boundaries Dataset and associated metadata records*

SECTION 6 – BUDGET JUSTIFICATION AND BUDGET TABLE

Tasks 1.2.1. through 1.2.2. – Create NENA Compliant Roads/Structures

MLIA funds will be used to facilitate GIS related database services in order to transpose all existing data to updated data schemas that are compliant with NENA standards.

Task 1.2.3. – Visual QA of Structures

Funds will be used to account for visual QAQC and manual editing of all structure points in the county.

Task 1.3.1. through 1.5.1. – Validating and Correcting Data

Contractor will both organize the corrections and fulfill all corrections through the State's validation tool.

Task 2.2.1. through 2.4.2. – Compile existing ESN boundaries and validate using State's validation tool, as well as correcting and facilitating any necessary changes with neighboring PSAPs.

Contractor will work with county staff to finalize and enhance existing boundaries to reach validation.

Task 3.1.1. – Run Topology on Datasets Developed for State Assessment

Contractor will run necessary topology and resolve all topologic errors that exist using error inspector.

MLIA GRANT DETAILED BUDGET TABLE					
Tasks	**Category Type**	**Funding Source**	**Hours**	**Rate**	**Cost**
Task 1.1.1. Kickoff Meeting	Contractual	MLIA Grant Funds	4	$ 112.00	$ 448.00
Task 1.2.1. Create NENA Compliant Road Centerlines	Contractual	MLIA Grant Funds	80	$ 112.00	$ 8,960.00
Task 1.2.2. Create NENA Compliant Structures	Contractual	MLIA Grant Funds	80	$ 112.00	$ 8,960.00
Task 1.2.3. Analyze Existing Address Structures and QA Points	Contractual	MLIA Grant Funds	40	$ 112.00	$ 4,480.00
Task 1.3.1. Run Roads and Structures through Validation Tool	Contractual	MLIA Grant Funds	8	$ 112.00	$ 896.00
Task 1.4.1. Use results of Validation Tool to Improve and correct	Contractual	MLIA Grant Funds	20	$ 112.00	$ 2,240.00
Task 1.5.1. Validate Data Corrections from Task 1.4.1.	Contractual	MLIA Grant Funds	4	$ 112.00	$ 448.00
Task 2.1.1. Collect Existing Boundary Data	Contractual	MLIA Grant Funds	8	$ 112.00	$ 896.00
Task 2.2.1. Validate ESN Boundaries	Contractual	MLIA Grant Funds	2	$ 112.00	$ 224.00
Task 2.3.1. Use Results from ESN Validation to Improve and correct	Contractual	MLIA Grant Funds	5	$ 112.00	$ 560.00
Task 2.4.1. Use the State's Validation to run Validation on ESN corrections	Contractual	MLIA Grant Funds	2	$ 112.00	$ 224.00
Task 2.4.2. Complete and Finalize ESN Boundaries, ready to be reviewed by county agencies	Contractual	MLIA Grant Funds	2	$ 112.00	$ 224.00
Task 3.1.1. Run Topology on Datasets Developed for State Assessment	Contractual	MLIA Grant Funds	10	$ 112.00	$ 1,120.00
Project Management and Assistance	Personnel (incl. fringe benefits)	Broadwater County In-Kind	60	$ 35.00	$ 2,100.00
		Totals:	325		$31,780.00

Tip:

Don't forget to include your statements of support.

SECTION 7 – PROJECT SUSTAINABILITY

The end goal of this project, which will be multi-phased as this phase will focus on the development of the data and assessments, is to provide Broadwater County residents with a sustainable dataset that is NENA compliant and ready for the roll out of NG-911 statewide. The data will be developed in a manner that will be easily transferable and shared by the contractor (Great West Engineering) and can be managed by Broadwater County. While the main component of the outcome of this project is a safer more efficient system for emergency response, another primary goal is to provide compliant data to the Montana State Library and its MSDI Framework. Broadwater County will utilize support from both Great West Engineering and Michael Fashoway, among other resources, to provide the most sustainable GIS and data management system. Data will be shared by the contractor and visualized using ArcGIS Pro and ArcGIS Online (AGOL) in future phases of this project so that Broadwater County can begin training and staffing for a position to manage the county's addressing dataset, the end goal also to have Broadwater County provide additional GIS outputs to county residents including public works information and other additional frameworks to benefit the county. Broadwater County's road department and public works will be able to share spatial information with its residents, as well as other public departments will be able to make their data publicly viewable with real world locations and viewable interfaces.

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SECTION 8 - RENEWABLE GRANT ACCOUNTABILITY

N/A

January 13, 2023

MLIA GRANT DETAILED BUDGET TABLE

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Totals:			325		$ 31,780.00

INVOICE

Community Development & Planning
515 Broadway St.
Townsend, MT 59644
Phone: (406) 266-9211

INVOICE #:
DATE:

Bill to:

Terms: On Receipt
Make all checks payable to: Broadwater County

Comments or Special Instructions:

QUANTITY	DESCRIPTION	RATE	TOTAL
		TOTAL	**$ 0.00**

If you have any questions concerning this invoice, please contact **Tacy Swanton** at tswanton@co.broadwater.mt.us.

<u>Authorizing Statement</u>

I hereby certify that I have read the application and the information and all statements in this application are true, complete and accurate to the best of my knowledge and that the project or activity complies with all applicable state, local and federal laws and regulations.

I further certify that this project will comply with applicable statutory and regulatory standards.

I further certify that I am (by my signature) authorized to enter into a binding agreement with the Montana State Library to obtain a grant if this application receives approval.

Debra F Randolph

Broadwater County Commissioner
_____   _____
Authorized Signer Name   Title

DocuSigned by:

Debra F Randolph

BF78CF0B3B1D4A3...
_____   2/22/2023
Signature   _____
                          Date Signed

Completed Application Package Received by:

Erin Fashoway
_____
Name   <u>MLIA Grant Administrator</u>
                         Title

DocuSigned by:

Erin Fashoway

898149F544564A6...
_____   2/22/2023
Signature   _____
                          Date Signed

DocuSign

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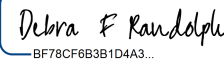
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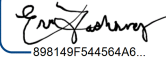| Signer Events	Signature	Timestamp
Debra F Randolph drandolph@co.broadwater.mt.us Broadwater County Commissioner Security Level: Email, Account Authentication (None)	*Debra F Randolph* BF78CF6B3B1D4A3... Signature Adoption: Pre-selected Style Using IP Address: 4.2.214.19	Sent: 2/21/2023 10:46:20 AM Resent: 2/22/2023 8:37:40 AM Viewed: 2/22/2023 9:38:09 AM Signed: 2/22/2023 9:40:29 AM

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Editor Delivery Events	Status	Timestamp

Agent Delivery Events	Status	Timestamp

Intermediary Delivery Events	Status	Timestamp

Certified Delivery Events	Status	Timestamp

Carbon Copy Events	Status	Timestamp
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Notary Events	Signature	Timestamp

Envelope Summary Events	Status	Timestamps
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