Land Information Council
AGENDA

November 13, 2024
9:00: A.M.
Courthouse – Room 3312
721 Oxford Ave, Eau Claire, WI

Join by Phone:
Dail in Number: 1-415-655-0001
Access Code: 25386048436##

Join by Meeting Number:
Meeting Number: 2538 604 8436
Meeting Password: ppMeM6yxn65

Join from Meeting Link:

https://eauclairecounty.webex.com/eauclairecounty/j.php?MTID=mcdfecc407e6d02d134bf4493216d9a24
A majority of the county board may be in attendance at this meeting, however, only members of the committee may take action on an agenda item.

For those wishing to make public comments, you must email Peter Strand at peter.strand@eauclairecounty.gov at least 60 minutes prior to the meeting to the start of the meeting.

1. Call to Order and confirmation of meeting notice by Chair

2. Roll Call

3. Public Comment (15 minute maximum)

4. Review/Approval of June 24, 2024 Meeting Minutes / Discussion – Action **Pages 2-3**

5. Approval of 2025-2027 Wisconsin Land Information Plan / Discussion–Action **Pages 4-35**

6. Land Information Area Updates / Discussion

    a. Register of Deeds (Scanning Project)

    b. Surveyor

    c. GIS/Land Information

    d. Real Property Lister

    e. Realtor

    f. Emergency Communications

    g. Treasurer

    h. City Representative

    i. County Board Member

7. Wisconsin Land Information Program Update

8. Proposed Future Agenda Items/Meeting Dates / Discussion

9. Adjourn

Eau Claire County
• LAND INFORMATION COUNCIL •

Date: June 24, 2024
Time: 10:30 a.m.
Location: *Eau Claire County Courthouse, 721 Oxford Ave, Room 3312, Eau Claire, Wisconsin 54703*

Members Present: Peter Strand, Roxann Schmidt, Dean Roth, Glenda Lyons Tina Pommier, Gregory Rosno
Members Absent: Shana Harmsen, Caleb Aichele
Others Present: Mary Jo Bowe-Edina Realty (Prospective Member-Realtor)
Staff Present: Heidi Pederson

Call to Order and confirmation of meeting notice by Chair
Peter called the meeting to order at 10:34 a.m.

Roll Call
Roll call was taken. A quorum was present with 5 members in attendance.

Public Comment
No public comments. No one online via WebEx.
*Tina Pommer arrived at 10:36 a.m.

Review/Approval of December 13, 2023 Meeting Minutes
Action: Motion by Dean Roth second by Gregory Rosno to approve December 13, 2023, meeting minutes. All in favor.

2025-2027 Land Information Plan Update
Peter will do most of the updating with members reviewing and sending updates regarding their sections.

Judicial Privacy Act and County Impact / Discussion
Came about due to Daniel's law. Tina should have an update by this fall. Will be in place April 1, 2025.

Review of County Code 2.05.672 Council Membership and Organization
Looking at updating code. Need to reappoint members. Looking at having election at next meeting. More inline with County Board elections.

Land Information Area Updates
Tina – Laptops being updated in Register of Deeds. Scanning project complete. Real Estate transfer fees received this year higher than anticipated.

Dean –Remonumentation project update. Road monuments will be replaced this fall after construction. Prepared legal descriptions for airport hangers due to personal property tax bill changes.

Peter – Working with NextGen 911 data. New districts in Eau Claire County. Created new wards. Completed Beacon site. Creating modifications for GIS hub site. Collaboration with Emergency Management to update Emergency Operations Center using GIS tools.

Greg – In middle of their next NextGen 911 transition. Testing the new fiber infrastructure. Should be live the next time the council meets. This will allow for better redundancies and efficiencies.

Shana – Absent

Roxann – Have all but 4 of the municipalities' assessments. Three municipalities are going through a full evaluation. Working on elimination of personal property.

Glenda – Personal Property changes are a hot topic. Affects a lot of their forms. Last year took over the tax delinquency properties from County Clerk's office. Clerk's office was behind due to Covid and Treasurer's Office still trying to catch up. Looking to get municipalities to get Board of Reviews moved up.

Caleb – Absent

Mary Jo – Provided update on current market of homes sales. Interest rates have come down a little. Looking to obtain one million in grant monies for any programs that the National Association of Realtors offers.

Wisconsin Land Information Program Update
2023 expense report just submitted. Received base budget approval.

Proposed Future Agenda Items/Meeting Dates
Fall meeting to approve Land Information Plan for 2025-2027. Possible Judicial Privacy Act Update.

Adjourn
Action: Motion by Tina Pommier second by Roxann Schmidt to adjourn. All in favor. The meeting was adjourned at 11:53 a.m.

Respectfully submitted.

Heidi Pederson
Clerk, Land Information Council

Eau Claire County
Land Information Plan

2025-2027

CONTENTS

EXECUTIVE SUMMARY

About this Document. This document is a land information plan for Eau Claire County prepared by the land information officer (LIO) and the Eau Claire County Land Information Council. Under state statute 59.72(3)(b), a "**countywide plan for land records modernization**" is required for participation in the Wisconsin Land Information Program (WLIP). The purpose of this document is twofold: 1) to meet WLIP funding eligibility requirements necessary for receiving grants and retaining fees for land information, and 2) to plan for county land records modernization in order to improve the efficiency of government and provide improved government services to businesses and county residents.

WLIP Background. The WLIP, administered by the Wisconsin Department of Administration, is funded by document recording fees collected by register of deeds at the county-level. In 2023, Eau Claire County was awarded $71,000 in WLIP grants and retained a total of $86,864 in local register of deeds document recording fees for land information.

This plan lays out how funds from grants and retained fees will be prioritized. However, as county budgets are determined on an annual basis with county board approval, this plan provides estimated figures that are subject to change and are designed to serve planning purposes only.

Land Information in Eau Claire County. Land information is central to county operations, as many essential services rely on accurate and up-to-date geospatial data and land records. A countywide land information system supports economic development, emergency planning and response, and a host of other citizen services. The Eau Claire County land information system integrates and enables efficient access to information that describes the physical characteristics of land, as well as the property boundaries and rights attributable to landowners.

Mission of the Land Information and GIS Programs. In the next three years, Eau Claire County's Land Information and GIS Programs will strive to be recognized for its exceptional webmapping site, gains in governmental efficiencies by broadening the utilization of GIS, improvements in parcel mapping accuracy, and responsiveness to meeting the land records needs of residents and businesses.

Land Information and GIS Projects. To realize this mission, in the next three years, the county land information office will focus on the following projects:

Eau Claire County Land Information Projects: 2025-2027	
Project #1	Project Plan for PLSS (Benchmark 4)
Project #2	Countywide Aerial Imagery
Project #3	Countywide LiDAR
Project #4	Highway Right-of-Way Scan
Project #5	Implementation of 2023 Wisconsin act 235
Project #6	Development of Water-Well Layer
Project #7	Development of POWTS Layer
Project #8	Register of Deeds Back Indexing of Scanned Documents
Project #9	PLSS Maintenance
Project #10	Obtain unmanned aerial vehicle equipment
Project #11	Floodplain Mapping Update
Project #12	Metadata Generation and Improvement

The remainder of this document provides more details on Eau Claire County and the WLIP, summarizes current and future land information projects, and reviews the county's status in completion and maintenance of the map data layers known as Foundational Elements.

1 INTRODUCTION

In 1989, a public funding mechanism was created whereby a portion of county register of deeds document recording fees collected from real estate transactions would be devoted to land information through a new program called the Wisconsin Land Information Program (WLIP). The purpose of the land information plan is to meet WLIP requirements and aid in county planning for land records modernization.

The WLIP and the Land Information Plan Requirement

In order to participate in the WLIP, counties must meet certain requirements:

- Update the county's land information plan at least every three years
- Meet with the county land information council to review expenditures, policies, and priorities of the land information office at least once per year
- Report on expenditure activities each year
- Submit detailed applications for WLIP grants
- Complete the annual WLIP survey
- Subscribe to DOA's land information listserv
- Coordinate the sharing of parcel/tax roll data with the Department of Administration in a searchable format determined by DOA under s. 59.72(2)(a)

> **LAND INFORMATION**
>
> Any physical, legal, economic or environmental information or characteristics concerning land, water, groundwater, subsurface resources or air in this state.
>
> 'Land information' includes information relating to topography, soil, soil erosion, geology, minerals, vegetation, land cover, wildlife, associated natural resources, land ownership, land use, land use controls and restrictions, jurisdictional boundaries, tax assessment, land value, land survey records and references, geodetic control networks, aerial photographs, maps, planimetric data, remote sensing data, historic and prehistoric sites and economic projections.
>
> – *Wis. Stats. section 59.72(1)(a)*

Any grants received and fees retained for land information through the WLIP must be spent consistent with the county land information plan.

The Statewide Parcel Map Initiative

For Strategic Initiative grant eligibility, counties are required to apply WLIP funding toward achieving certain statewide objectives, specified in the form of "benchmarks." Benchmarks for parcel data—standards or achievement levels on data quality or completeness—were determined through a participatory planning process. Current benchmarks are detailed in the WLIP grant application, as will be future benchmarks.

WLIP Benchmarks

- Benchmark 1 & 2 – Parcel and Zoning Data Submission/Extended Parcel Attribute Set Submission
- Benchmark 3 – Completion of County Parcel Fabric
- Benchmark 4 – Completion and Integration of PLSS

More information on how Eau Claire County is meeting these benchmarks appears in the Foundational Elements section of this plan document.

County Land Information Plan Process

Counties must submit their plans to DOA for approval every three years. The 2025-2027 plan is to be completed at the end of 2024.

County Land Information Plan Timeline
- DOA release of finalized instructions by March 31, 2024.
- **April-September 2024:** Counties work on land info plans.
- **Complete draft plans due to DOA by September 30, 2024** (but sooner is advised).
- **Final plans with county land info council approval due by December 31st, 2024.**

Plan Participants and Contact Information

Another requirement for participation in the WLIP is the county land information council, established by legislation in 2010. The council is tasked with reviewing the priorities, needs, policies, and expenditures of a land information office and advising the county on matters affecting that office.

According to s. 59.72(3m), Wis. Stats., the county land information council is to include:
- Register of Deeds
- Treasurer
- Real Property Lister or designee
- Member of the county board
- Representative of the land information office
- A realtor or member of the Realtors Association employed within the county
- A public safety or emergency communications representative employed within the county
- County surveyor or a registered professional land surveyor employed within the county
- Other members of the board or public that the board designates

The land information council must have a role in the development of the county land information plan, and DOA requires county land information councils to approve final plans.

This plan was prepared by the county LIO, the Eau Claire County Land Information Council, and others as listed below.

Eau Claire County Land Information Council and Plan Workgroup			
Name	**Title**	**Affiliation**	**Email**
* Tina Pommier	Register of Deeds	Eau Claire County Register of Deeds	tina.pommier@eauclairecounty.gov
*Glenda Lyons	County Treasurer	Eau Claire County Treasurer's Office	glenda.lyons@eauclairecounty.gov
*Roxann Schmidt	Real Property Lister	Eau Claire Co. Planning & Development	roxann.schmidt@eauclairecounty.gov
*Caleb Aichele	County Board Member	Eau Claire Co. Board of Supervisors	caleb.aichele@eauclairecounty.gov
*Peter Strand	Land Information Officer GIS Administrator	Eau Claire Co. Planning & Development	peter.strand@eauclairecounty.gov
*Mary Jo Bowe	Realtor	Wisconsin Realtor Association\Edina Realty	Maryjobowe@edinarealty.com
* Gregory Rosno	Public Safety Officer	Eau Claire Emergency Center	gregory.rosno@eauclairewi.gov
*Dean Roth	County Surveyor	Eau Claire Co. Planning & Development	dean.roth@eauclairecounty.gov
*Shana Harmsen	GIS Administrator	City of Eau Claire	Shana.Harmsen@eauclairewi.gov

2 FOUNDATIONAL ELEMENTS

Counties must have a land information plan that addresses development of specific datasets or map layer groupings historically referred to as the WLIP Foundational Elements. Foundational Elements incorporate nationally recognized "Framework Data" elements, the major map data themes that serve as the backbone required to conduct most mapping and geospatial analysis.

In the past, Foundational Elements were selected by the former Wisconsin Land Information Board under the guiding idea that program success is dependent upon a focus for program activities. Thus, this plan places priority on certain elements, which must be addressed in order for a county land information plan to be approved. Beyond the county's use for planning purposes, Foundational Element information is of value to state agencies and the WLIP to understand progress in completion and maintenance of these key map data layers.

FOUNDATIONAL ELEMENTS

PLSS
Parcel Mapping
LiDAR and Other Elevation Data
Orthoimagery
Address Points and Street Centerlines
Land Use
Zoning
Administrative Boundaries
Other Layers

PLSS

Public Land Survey System Monuments

Layer Status

PLSS Layer Status	Status/Comments	
Number of PLSS corners (selection, ¼, meander) **set in original government survey** that can be remonumented in your county	• 2069	
Number of PLSS corners capable of being remonumented in your county that **have been remonumented**	• 1443	
Number of remonumented PLSS corners with survey grade coordinates (see below for definition) • **SURVEY GRADE** – coordinates collected under the direction of a Professional Land Surveyor, in a coordinate system allowed by 236.18(2), and obtained by means, methods and equipment capable of repeatable 2 centimeter or better precision • **SUB-METER** – point precision of 1 meter or better • **APPROXIMATE** – point precision within 5 meters or coordinates derived from public records or other relevant information	• 1443	
Number of survey grade PLSS corner coordinates **integrated** into county digital parcel layer (see definition of PLSS integration on page 37)	• 1443	
Number of non-survey grade PLSS corner coordinates integrated into county digital parcel layer	• 626	
Tie sheets available online?	• Yes	Beacon - Eau Claire County, WI - Map
Percentage of remonumented PLSS corners that have **tie sheets available online** (whether or not they have corresponding coordinate values)	• 70%	
Percentage of remonumented PLSS corners that have tie sheets available online (whether or not they have corresponding coordinate values) **and a corresponding URL path/hyperlink value** in the PLSS geodatabase	• 70%	
PLSS corners believed to be remonumented based on filed tie-sheets or surveys, but do not have coordinate values	• 30%	
Approximate number of PLSS corners believed to be lost or obliterated	• Indeterminate	
Which system(s) for **corner point identification/ numbering** does the county employ (e.g., the Romportl point numbering system known as Wisconsin Corner Point Identification System, the BLM Point ID Standard, or other corner point ID system)?	•	Romportl
Does the county contain any **non-PLSS areas** (e.g., river frontage long lots, French land claims, private claims, farm lots, French long lots, etc.) or any special situations regarding PLSS data for tribal lands?	• No	
Total number of PLSS corners along each bordering county	• 218	
Number of PLSS corners remonumented along each county boundary	• 146	
Number of remonumented PLSS corners along each county boundary with survey grade coordinates	• 146	

Custodian
- Public Land Survey System Monuments and monument records are retained by the Eau Claire County Surveyor's Office within the Department of Planning and Development.

Maintenance
- The Public Land Survey System is maintained continuously.

Standards
- Statutory Standards for PLSS Corner Remonumentation
  s. 59.74, Wis. Stats. Perpetuation of section corners, landmarks.
  s. 60.84, Wis. Stats. Monuments.
  ch. A-E 7.08, Wis. Admin. Code, U.S. public land survey monument record.

ch. A-E 7.06, Wis. Admin. Code, Measurements.
s. 236.15, Wis. Stats. Surveying requirements.

- North American Terrestrial Reference Frame of 2022 (NATRF2022)

- **Survey grade** standard from Wisconsin County Surveyor's Association:
  - **Survey grade** – coordinates collected under the direction of a Professional Land Surveyor, in a coordinate system allowed by 236.18(2), and obtained by means, methods and equipment capable of repeatable 2 centimeter or better precision
  - **Sub-meter** – point precision of 1 meter or better
  - **Approximate** – point precision within 5 meters or coordinates derived from public records or other relevant information

Other Geodetic Control and Control Networks
e.g., HARN, Height Mod., etc.
Layer Status
- Eau Claire County does not have other geodetic control

Parcel Mapping

Parcel Geometries
Layer Status
- **Progress toward completion/maintenance phase:**
  Eau Claire County is 100% parcel mapped referenced to the PLSS network and entered using coordinate geometry. The parcels are maintained using ESRI's Parcel Fabric framework within an ESRI Enterprise database. As the county's remonumentation program completes sections, those sections are re-parcel mapped. Eau Claire County parcel polygons are attributed with two parcel identification numbers, which directly integrates tax/assessment data. Parcels are available in a commonly used digital GIS format.
- **Projection and coordinate system:**
  NAD_1983_2011_WISCRS_Eau_Claire_Feet
- **Integration of tax data with parcel polygons:**
  The county does have a parcel polygon model that directly integrates tax/assessment data as parcel attributes.
- **Online Parcel Viewer Software/App and Vendor name:**
  Beacon – hosted, implemented, and maintained by Schneider Geospatial
- **Unique URL path for each parcel record:**
  No

Custodian
- The GIS Division within the Department of Planning and Development.

Maintenance
- **Update Frequency/Cycle:**
  Parcel data is maintained constantly as needed.

Standards
- **Data Dictionary:**
  Eau Claire County maintains a Data Dictionary for the parcel data. National Map Accuracy Standards Confirm the presence of data dictionary in human-readable form, with thorough definitions for each element/attribute name, and explanations of any county-specific notations, particularly for parcel attributes listed by s. 59.72(2)(a) (This is real property file).

Parcels Without Land Value

Layer Status
- **Number of parcels without a land value recorded to-date:** 4 Parcels as of date 08/13/2024
- **County geolocates/maps parcels for improvements only and without a land value by:** TBD

Assessment/Tax Roll Data

Layer Status
- **Progress toward completion/maintenance phase:** NA
- **Tax Roll Software/App and Vendor name:** Ascent for Transcendent Technologies
- **Municipal Notes:** Eau Claire County contains 19 municipalities for which we maintain data. The City of Eau Claire is the only municipality that maintains its own property data.

Custodian
- Real Property Lister

Maintenance
- **Maintenance of the Searchable Format standard:** To maintain the Searchable Format standard, the county will continue to create exports within our land information/records systems that support the Searchable Format standard.

Standards
- Wisconsin Department of Revenue Property Assessment Manual and attendant DOR standards
- DOR XML format standard requested by DOR for assessment/tax roll data

Non-Assessment/Tax Information Tied to Parcels
e.g., Permits, Easements, Non-Metallic Mining, Brownfields, Restrictive Covenants
Layer Status
- NA

ROD Real Estate Document Indexing and Imaging

Layer Status
- **Grantor/Grantee Index:** Digitized from 1856 to present.
- **Tract Index:** PLSS based index-Computerized tract March 1992 to present, recording conveyances of real property, mortgages, etc.
- **Imaging:** Documents imaged 1856 to present available online.
- **ROD Software/App and Vendor Name:** Laredo/Tapestry-from contractor-Vendor Fidlar

Custodian
- County Register of Deeds

Maintenance
- Replication located offsite with staff and software vendor assistance with quality control/technology advances.

Standards
- s. 59.43, Wis. Stats. Register of deeds; duties, fees, deputies.
- ch. 706, Wis. Stats. Conveyances of real property; Recording; Titles.

LiDAR and Other Elevation Data
LiDAR
Layer Status
- **Most recent acquisition year:** 2020
- **Accuracy:**
  - LAS: NVA equates to 10 cm RMSEz, or 19.6 cm (0.64 ft) at the 95% confidence level.

- - **DEM**: NVA equates to 10 cm RMSEz, or 19.6 cm (0.64 ft) at the 95% confidence level. VVA equates to 29.4 cm (0.96 ft) at the 95th percentile.
  - **Post spacing:** 0.7 meters
  - **Contractor's standard, etc.:** Ayres primary and Quantum Spatial (now NV5 Geospatial) as lidar acquisition partner as part of the Wisconsin WROC – 3DEP Eau Claire County Lidar 2020
  - **Next planned acquisition year:** 2026
  - **QL0/QL1/QL2 acquisition plans:** QL2

Custodian
- The GIS Division within the Department of Planning and Development.

Maintenance
- None

Standards
- USGS Lidar Base Specification

LiDAR Derivatives
e.g., Bare-Earth Digital Terrain Model (DTM), Bare-Earth Elevation Contours, Bare-Earth Digital Elevation Model (DEM), Digital Surface Model (DSM), etc.

Layer Status
- The calibrated LiDAR data was processed to a classified point cloud, bare earth DTM, DEM, contours, breaklines, and intensity images.
- The DEM was processed by Eau Claire County to obtain multiple slope classification layers.

Custodian
- The GIS Division within the Department of Planning and Development.

Maintenance
- None

Standards
- USGS Lidar Base Specification

Other Types of Elevation Data
Layer Status
- The County does not maintain other types of elevation data.

Orthoimagery
Orthoimagery
Layer Status
- **Most recent acquisition year:** 2023
- **Resolution:** 3 and 6-inch GSD orthogonal frame images
- **Contractor's standard:** Standard Orthomosaic Product
- **Next planned acquisition year:** 2026

Custodian
- The GIS Division within the Department of Planning and Development.

Maintenance
- None

Standards
- Imagery was collected to support 6-inch resolution digital orthoimagery

Historic Orthoimagery

Layer Status

- 1974-- NRCS 100% 38k BW Film\scanned
- 1972-- FSA 100% 20k BW Film\scanned
- 1965-- FSA 100% 20k BW Film\scanned
- 1958-- FSA 100% 20k BW Film \scanned
- Partial coverage exists for 2004, 2005, and 2006.

Custodian

- The GIS Division within the Department of Planning and Development.

Maintenance

- None

Standards

- Unknown

Other Types of Imagery
e.g., Oblique Imagery, Satellite Imagery, Infra-red, etc.

Layer Status

- Infra-red orthophoto exists for 2006 covering the area of the City of Eau Claire and surrounding areas.

Custodian

- The GIS Division within the Department of Planning and Development.

Maintenance

- None

Standards

- Unknown

Address Points and Street Centerlines
Address Point Data

Layer Status

- Eau Claire County maintains an Address Access Points and Address Point layer. Address Access Points are created along the street centerline at the driveway access point of the parcel. Address Points are maintained on the structure. All address data is maintained within an ESRI Enterprise database.

Custodian

- The GIS Division within the Department of Planning and Development.

Maintenance

- Address point data is maintained daily as needed.

Standards

- County addressing conforms to USPS and NENA standards.

Building Footprints

Layer Status

- Eau Claire County received building footprints as a deliverable of the county's 2013 LiDAR flight, and 2020 Ortho flight.

Custodian

- The GIS Division within the Planning and Development Department.

Maintenance

- None

Standards

- LiDAR data was collected to support FEMA accuracy standards and to support generation of 2-foot contours.

Other Types of Address Information

e.g., Address Ranges

Layer Status

- Address Ranges are maintained as an attribute of road centerlines

Custodian

- The GIS Division within the Department of Planning and Development.

Maintenance

- Road Centerlines data is maintained daily as needed.

Standards

- County addressing conforms to USPS and NENA standards.

Street Centerlines

Layer Status

- Eau Claire County maintains Road Centerline, the features are fully attributed with address ranges to enable NG911 dispatch and network routing. Road Centerline data is maintained within an ESRI Enterprise database. The Road Centerline layer is used in the assigning of address points and for NG911 dispatch.

Custodian

- The GIS Division within the Planning and Development Department.

Maintenance

- Road Centerline data is maintained daily as needed.

Standards

- Road Centerline data was created with NENA standards

Rights of Way

Layer Status

- Eau Claire County maintains a Right of Way layer as part of the parcel mapping maintenance process. New Transportation Plats are maintained as part of our Platted Lands layer.

Custodian

- The GIS Division within the Planning and Development Department.

Maintenance

- Right of Way data is maintained daily as needed.

Standards

- National Map Accuracy Standards

Trails

e.g., Recreational Trails

Layer Status

- Recreational trail data has been created for various activities including snowmobiling, hiking, cycling, cross country skiing, and horseback riding.

Custodian

- The GIS Division within the Planning and Development Department.

Maintenance

- Planning to combine separate trail layers into single layer and developing a maintenance procedure with various stakeholders to keep data current and accurate.

Standards
- County-based standards are utilized.

Land Use

Current Land Use

Layer Status
- none

Future Land Use

Layer Status
- Eau Claire County maintains a Future Land Use layer. It was created during the comprehensive planning process.

Custodian
- The GIS Division within the Planning and Development Department.

Maintenance
- The Future Land Use layer is maintained daily as needed.

Standards
- s. 66.1001, Wis. Stats. Comprehensive planning.

Zoning

County General Zoning

Layer Status
- The County does maintain a GIS representation of county general zoning boundaries. For the towns that have adopted general county zoning.

Custodian
- Zoning data is maintained by the GIS Division within the Planning and Development Department.

Maintenance
- Zoning data is maintained daily as needed as an attribute of the parcel.

Standards
- National Map Accuracy Standards

Shoreland Zoning

Layer Status
- The County does maintain a GIS representation of county shoreland zoning boundaries.

Custodian
- Shoreland Zoning data is maintained by the GIS Division within the Planning and Development Department.

Maintenance
- Shoreland Zoning data is maintained daily as needed as an attribute of the parcel.

Standards
- State statute is NR 115
- County Statute is Title 20

Farmland Preservation Zoning

Layer Status
- The County does maintain a GIS representation of county farmland preservation zoning boundaries.
- **Year of certification:** 2015

Custodian
- Zoning data is maintained by the GIS Division within the Planning and Development Department.

Maintenance
- Zoning data is maintained daily as needed as an attribute of the parcel.

Standards
- Chapter 91, Subchapter 2

Floodplain Zoning

Layer Status
- The County does maintain a GIS representation of floodplain zoning boundaries
- The county's floodplain zoning GIS data is the same as/identical to the FEMA map

Custodian
- FEMA

Maintenance
- Conducted by FEMA

Standards
- FEMA

Airport Protection

Layer Status
- The County does maintain a GIS representation of airport protection zoning boundaries.
- **Airport protection zoning map depicts:** Height limitation restrictions and the general zoning overlay for airport protection

Custodian
- Airport Zoning data is maintained by the GIS Division within the Planning and Development Department

Maintenance
- This data was updated and adopted in 2002, 2007, 2013.

Standards
- Wis. Stats. 59.03, 59.04, 59.69, 59.694, 114.14 and 114.136

Administrative Boundaries

Civil Division Boundaries
e.g., Towns, City, Villages, etc.

Layer Status
- Eau Claire County maintains a Civil Divisions layer which includes towns, city, and villages.

Custodian
- The GIS Division within the Planning and Development Department.

Maintenance
- Civil Divisions data is maintained daily as needed.

- National Map Accuracy Standards

School Districts

Layer Status
- **Progress toward completion/maintenance phase:** Eau Claire County has created a School District Boundary file.
- **Relation to parcels:** Eau Claire County maintains a school district code on all of our parcels in our Real Property Database.
- **Attributes linked to parcels:** School district codes are maintained for each parcel.

Custodian
- Real Property Lister

Maintenance
- School district codes are maintained daily as needed.

Standards
- National Map Accuracy Standards

Election Boundaries
e.g., Voting Districts, Precincts, Wards, Polling Places, etc.
Layer Status
- Eau Claire County maintains a Ward data layer countywide.

Custodian
- Ward data is maintained by the GIS Division within the Planning and Development Department.

Maintenance
- Ward data is maintained daily as needed.

Standards
- National Map Accuracy Standards

Utility Districts
e.g., Water, Sanitary, Electric, etc.
Layer Status
- Eau Claire does not have a Utility Districts layer

Emergency Service Boundary – Law/Fire/EMS

Layer Status
- **Law Enforcement:** The Eau Claire Emergency Communication Center maintains data for fire/police districts, emergency service districts, and 911 call service areas.
- **Fire:** The Eau Claire Emergency Communication Center maintains data for fire/police districts, emergency service districts, and 911 call service areas.
- **EMS:** The Eau Claire Emergency Communication Center maintains data for fire/police districts, emergency service districts, and 911 call service areas.

Custodian
- These layers are maintained by The Eau Claire Emergency Communications Center, which is a joint venture between the City of Eau Claire and Eau Claire County.

Maintenance
- The data is maintained on a regular basis.

- City and County-based standards are utilized.
- Wisconsin GIS NG9-1-1 Data Standard (PSAP Boundary)

Public Safety Answering Points (PSAP) Boundary

Layer Status
- **PSAP Boundary:** PSAP boundary is not coincident with the county boundary
- The Eau Claire Emergency Communication Center maintains data for fire/police districts, emergency service districts, and 911 call service areas.

Custodian
- These layers are maintained by The Eau Claire Emergency Communications Center, which is a joint venture between the City of Eau Claire and Eau Claire County.

Maintenance
- The data is maintained on a regular basis.

Standards
- City and County-based standards are utilized.
- Wisconsin GIS NG9-1-1 Data Standard (PSAP Boundary)

Provisioning Boundary

Layer Status
- The Eau Claire Emergency Communication Center maintains data for fire/police districts, emergency service districts, and 911 call service areas.

Custodian
- These layers are maintained by The Eau Claire Emergency Communications Center, which is a joint venture between the City of Eau Claire and Eau Claire County.

Maintenance
- The data is maintained on a regular basis.

Standards
- City and County-based standards are utilized.
- Wisconsin GIS NG9-1-1 Data Standard (Provisioning Boundary)

Other Public Safety
e.g., Healthcare Facilities
Layer Status
- none

Lake Districts

Layer Status
- The County maintains a list of parcels within the 5 lake districts. Each district is responsible for maintaining the mapping of their respective district.

Custodian
- Real Property Lister

Maintenance
- As need

Standards
- County-based standards are utilized.

Native American Lands

Layer Status
- Eau Claire does not have a Native American Lands layer

Other Administrative Districts
e.g., County Forest Land, Parks/Open Space, etc.

Layer Status
- The County does maintain a GIS representation of County Parks

Custodian
- These layers are maintained by The Eau Claire County Parks Department and the GIS Division.

Maintenance
- As needed

Standards
- County-based standards are utilized.

Other Layers

Hydrography Maintained by County or Value-Added
e.g., Hydrography maintained separately from DNR or value-added, such as adjusted to orthos

Layer Status
- Eau Claire County maintains its own hydro layers. The hydrography information was compiled by directly digitizing water features off 1995 and 2006 digital orthophotographs. All water body names were transferred from WI DNR 24K Hydro and simple hydro area shapefiles. Upon completion of the western half of the county, a file was sent to the Department of Natural Resources for review to determine which of the water features are navigable versus non-navigable. Edits were made to the file based on their efforts.

Custodian
- The GIS Division within the Planning and Development Department

Maintenance
- Hydro data is maintained daily as needed.

Standards
- County-based standards are utilized.

Cell Phone Towers

Layer Status
- None

Bridges and Culverts

Layer Status
- In 2018 Eau Claire County conducted a Highway Asset Inventory Project. This project included the collection of bridge data
- Eau Claire is currently collecting culvert data starting with larger culverts on county roads.

Custodian
- County Highway Department

Maintenance
- Data is maintained as needed

Standards
- County-based standards are utilized.

Other

e.g., Pipelines, Railroads, Non-Metallic Mining, Sinkholes, Manure Storage Facilities, etc.

Layer Status

- none

3 LAND INFORMATION SYSTEM

The WLIP seeks to enable land information systems that are both modernized and integrated. Integration entails the coordination of land records to ensure that land information can be shared, distributed, and used within and between government at all levels, the private sector, and citizens.

One integration requirement is listed under s. 16.967(7)(a)(1), Wis. Stats., which states that counties may apply for grants for:

- The design, development, and implementation of a land information system that contains and integrates, at a minimum, property and ownership records with boundary information, including a parcel identifier referenced to the U.S. public land survey; tax and assessment information; soil surveys, if available; wetlands identified by the department of natural resources; a modern geodetic reference system; current zoning restrictions; and restrictive covenants.

This chapter describes the design of the county land information system, with focus on how data related to land features and data describing land rights are integrated and made publicly available.

Current Land Information System
Technology Architecture and Database Design
This section refers to the hardware, software, and systems that the county uses to develop and operate computer systems and communication networks for the transmission of land information data.

Hardware
- Eau Claire County's GIS runs on a virtual machine.
- Currently it is an Intel® Xeon® Gold 6442Y CUP@ 2.20GHz with 8 GB of RAM

Software
- Windows server 2016 R2 x64-bit
- SQL Server 2017
- Esri enterprise 10.9.1
- **County currently uses ArcGIS Pro:** Yes, 3.1.1
- **County plans to upgrade to ArcGIS Pro:** Yes, 3.3 Q4-2024

Website Development/Hosting
- Eau Claire County Hub (arcgis.com)
- Beacon - Eau Claire County, WI - Map (schneidercorp.com)

Metadata and Data Dictionary Practices
Metadata Creation
- **Metadata creation and maintenance process:** Metadata is maintained for all of our GIS publication layers
Metadata Software
- **Metadata software:** ArcCatalog
  - ArcCatalog generates metadata consistent with the FGDC Content Standard for Digital Geospatial Metadata, and ISO geographic metadata standard 19115.
- **Metadata fields manually populated:**
  - As needed fields are populated manually

- **Metadata Policy:** No formally adopted policy

Municipal Data Integration Process

- Eau Claire County integrates the City of Eau Claire's parcels for submittal to DOA annually.
- Eau Claire County and the City of Eau Claire currently jointly maintain a single NG911 Centerline and Address Point Geodatabase utilized by the dispatch center.

Public Access and Website Information			
GIS Webmapping Application(s) Link - URL	GIS Download Link – URL	Real Property Lister Link - URL	Register of Deeds Link - URL
Beacon - Eau Claire County, WI - Map (schneidercorp.com)	Eau Claire County Hub (arcgis.com)	Beacon - Eau Claire County, WI - Map (schneidercorp.com)	Tapestry Search (fidlar.com)

Single Landing Page/Portal for All Land Records Data
URL
Eau Claire County Hub (arcgis.com)

Web Services/REST End Points
URL
not publicly shared

County Webpage with Link to Statewide Parcel Map (www.sco.wisc.edu/parcels/data)
URL
Eau Claire County Hub (arcgis.com)

Municipal Website Information	
Municipal Website	Municipal Website URL
City of Eau Claire	Beacon - City of Eau Claire, WI - Map (schneidercorp.com)

Data Sharing

Data Availability to Public

Data Sharing Policy

- All of our land information is open data and is freely distributed.

Open Records Compliance

- Eau Claire County Complies with Wisconsin's Open Records Law

Data Sharing Restrictions and Government-to-Government Data Sharing

Data Sharing Restrictions

- None

Government-to-Government Data Sharing

- No Restrictions

Training and Education

- Eau Claire County is dedicated to training and education. It's the best way to ensure we're getting the most from our Land Information investment. County staff take advantage of training opportunities attending local, state, and national conferences and meetings. This abundance of user-to-user communication and collaboration is essential to learning about real-life GIS experiences, best practices, tips and tricks, and more.
- County staff are also active members of Wisconsin Land Information Association, Wisconsin Land Information Officers Network, Wisconsin Real Property Listers Association, Register of Deeds Association, Wisconsin Society of Land Surveyors, Wisconsin County Surveyors Association, and more

4 CURRENT & FUTURE PROJECTS

This chapter lists the current and future land information projects the county is currently undertaking or intends to pursue over its planning horizon. A project is defined as a temporary effort that is carefully planned to achieve a particular aim. Projects can be thought of as the *means* to achieving the county's mission for its land information system.

PLAN PROJECTS!

County Land Information Plan

2019
2020
2021

2019-2021 Land Info Plan due at end of 2018
2022-2024 Land Info Plan due at end of 2021

APPLY FOR FUNDING FOR PROJECTS (FOR NEXT CALENDAR YEAR)

WLIP Grant Application
Due December 31st

Parcel/Tax Roll Submittal to DOA
Due March 31st

DO PROJECTS

REPORT ON PROJECTS (FROM PREVIOUS CALENDAR YEAR)

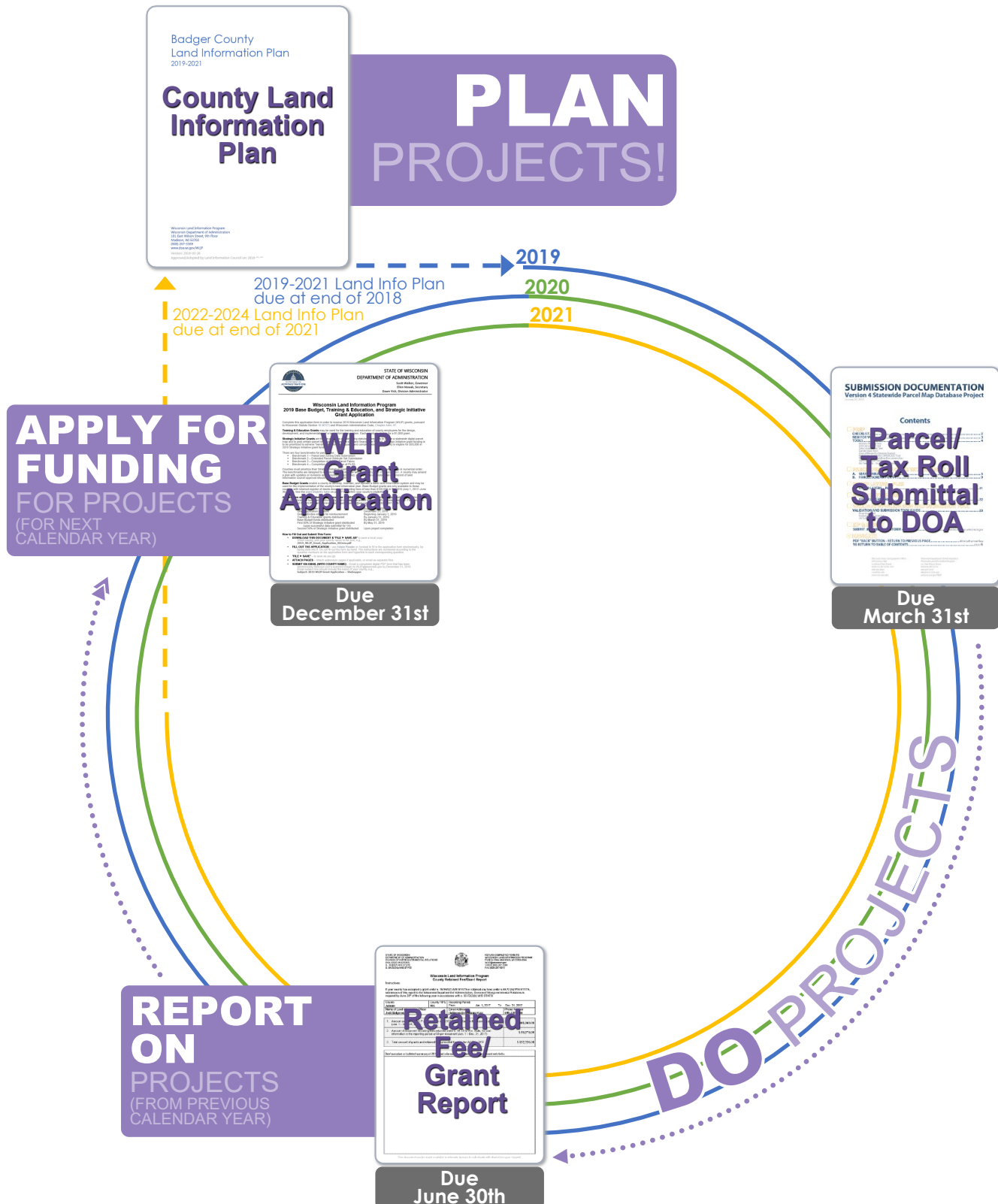Retained Fee/Grant Report
Due June 30th

Figure 1. The WLIP Land Information Plan/Grant Project Cycle

Project Plan to Maintain Searchable Format (Benchmarks 1 & 2)

Project Title: Project Plan to Maintain Searchable Format (Benchmarks 1 & 2)

Project Description

How Searchable Format Will Be Maintained

- Eau Claire County implemented Ascent Land Records Suite – from Transcendent Technologies for Real Property Listing. A requirement for this software system was the export in DOA's searchable format for Benchmarks 1 & 2.

Business Drivers

- Maintain Searchable Format for data submission to DOA.

Objectives/Measure of Success

- The objective is to continue to meet the Searchable Format for Benchmarks 1 & 2 (Parcel and Zoning Data Submission, Extended Parcel Attribute Set Submission).

Project Timeframes

- On going

Responsible Parties

- Eau Claire County's Information Systems Department will be the lead on this project. They will select a vendor and coordinate the project.

Estimated Budget Information

- See table at the end of this chapter for project budget information.

Project Plan for PLSS (Benchmark 4)

Project Title: Project Plan for PLSS (Benchmark 4)

Project Description

Current status

- See PLSS Layer Status table in Chapter 2.

Planned approach

- Eau Claire County Surveyor's Office staff will examine the records pertaining to those PLSS monuments in the eastern half of Eau Claire County, continuing efforts in Town 26 North, Range 6 West and Town 27 North Range 6 west. The existing monuments will be visited in the field and will be either accepted as-monumented or placed at the location indicated by the best available evidence of the position of the original BLM placed section or quarter corners. At the time of the visits, survey grade coordinates will be collected for the monument, witness marks, or control points used to derive the above. Those monumented positions will be preserved on PLSS monument records along with the full history of the referenced corner. The corner information collected will be imported to CAD and act as the framework upon which parcel information shall be placed before integration to the county GIS. Each new (geographic) project area would represent approximately 12-18 months of labor, mapping and proofing.

Missing Corner Notes

- Corners in the remonumentation project area will be replaced using best available evidence for their location. There are corners that fall in water and meander corners will preserve these corner positions.

County Boundary Collaboration

- Eau Claire County is pleased to work with surrounding counties to correctly perpetuate PLSS monuments along shared boundaries and will provide information during and after any project is undertaken along these shared boundaries.

Business Drivers

- Completion and integration of PLSS will improve the geospatial accuracy of the parcel layer and other county land information system layers.
- Additionally, any landowner or user of real property information; business, private or public, will benefit from this continued development of accurate and up to date land information. Departments affected include, but are not limited to: Parks and Forests, Highway, Planning and Development, Register of Deeds, Treasurer, Department of Natural Resources and the Sheriff's department for dispatch.

Objectives/Measure of Success

- **The objective is to meet Benchmark 4 (Completion and Integration of PLSS) by:** 2027.
- **Number of corners to be remonumented and/or rediscovered by 2027:** 626
- **Number to have new coordinates established by 2027:** 626
- **Accuracy class for these new coordinates by 2027:** Survey Grade
- **Number of new corner coordinates to be integrated into the parcel fabric by 2027:** 626
- **Number of new tie sheets to be posted online by 2027:** 626

Project Timeframes

- At current staffing levels and county priorities we anticipate the remonumentation project to be completed sometime in 2027.

Responsible Parties

- County Surveyor –Project oversight and quality assurance.
- Hired Staff OR Contracted surveying services.

Estimated Budget Information

- See table at the end of this chapter (for budget information for the planning period 2025-2027).

- **Estimated remaining cost for completion and integration of PLSS (to reach maintenance mode)**
  - **Estimated approximate average cost of remonumentation per corner:** $1500
  - **Total cost of remaining remonumentation:** $939,000
  - **Total cost of remaining integration of PLSS points into parcel layer:** $220,000
  - **Cost of anything else remaining:** 0
  - **Total remaining cost:** $1159,000

Project #2: Countywide Aerial Imagery

Project Description

- The primary objective of this project is to acquire new 6-inch resolution digital orthoimagery for Eau Claire County. Orthoimagery benefits a wide range of users of geospatial data, including private industry, public agencies, nongovernmental organizations, citizens, and educational institutions.
- **Land Info Spending Category:**
  - Digital Parcel Mapping
  - PLSS
  - Zoning Work
  - Address Points
  - Street Centerlines

Business Drivers

- The primary business drivers are as follows:
  - Provide a high accuracy base map for parcel mapping and data analysis.
  - Aid in various planning and engineering activities, saving time in informing public decisions.
  - Support Emergency Management's planning and response.
  - Save time in locating and responding to 911 emergencies.
  - Avoid the cost of erroneous information from out of date imagery and map features

Objectives/Measure of Success

- 100% of the 648 square miles of Eau Claire County are flown with Leaf-off Spring conditions.
- 6-inch natural color images that are free of snow, ice, fog, and clouds.
- Imagery with a sun angle greater than 30 degrees.

Project Timeframes

- 2026

Responsible Parties

- The GIS Division staff will be responsible for the project

Estimated Budget Information

- See table at the end of this chapter.

Project #3: Countywide LiDAR

Project Description

- The primary objective of this project is to acquire new LiDAR data for Eau Claire County. LiDAR (Light Detection and Ranging) is an aerial survey technology that uses laser pulses to measure surfaces and objects in three dimensions.
- **Land Info Spending Category:**
  - LiDAR

Business Drivers

- Changing landscapes – Evaluate, compare, and analyze change when comparing against previous data.
- Updated floodplain mapping
- Emergency response
- Cut and fill analysis in non-metallic mining
- Stormwater management
- Asset management
- Forest canopy analysis

Objectives/Measure of Success
- Full LiDAR dataset

Project Timeframes
- 2027

Responsible Parties
- The GIS Division staff will be responsible for the project

Estimated Budget Information
- See table at the end of this chapter.

Project #4: Highway Right-of-Way Scan

Project Description
- Develop a county-wide digital system for right-of-way documents. Create an online portal allowing users to search highway records spatially and return to authoritative document. These documents are used by several county departments and are difficult to access.
- **Land Info Spending Category:**
    - PLSS
    - Parcel Mapping

Business Drivers
- Ensure the Survey and GIS programs have access to up-to-date and accurate information

Objectives/Measure of Success
- Scanning, organizing, and cataloging all of the county's right-of-way documents

Project Timeframes
- 2027

Responsible Parties
- The GIS Division
- The County Surveyor
- The Highway Department

Estimated Budget Information
- See table at the end of this chapter.

Project #5: Implementation of 2023 Wisconsin Act 235

Project Description
- The Eau Claire County Land Information Council will work with the county Administration Department, Corp Council, and others to ensure that the Register of Deeds, Property Listing, Treasurer, Land Information (GIS), and others fully implement this new privacy law pertaining to county public facing land records and GIS web sites. This law will certainly require changes to the way we process, store, and distribute land records and it may also require investment in new software or other technologies.
- Land Info Spending Categories: Administrative Activities and Management, Other

Business Drivers
- This is a new state law going into effect in April 2025

Objectives/Measure of Success

- County web sites and databases that host land records (Register of Deeds, GIS, etc) will meet the requirements of this law. As of the time of the writing of this plan implementation details are still unclear.

Project Timeframes

- April 2026

Responsible Parties

- The GIS Division
- The County Surveyor
- The Register of Deeds

Estimated Budget Information

- See table at the end of this chapter.

Project #6: Development of Water-Well Layer

Project Description

- Determine the location and characteristics of Water-Wells in Eau Claire County.
- **Land Info Spending Category:**
  - Data Development

Business Drivers

- Determine water-well location, depth, construction, water level, local geology, driller and original owner.
- Gain a better understanding of the local conditions

Objectives/Measure of Success

- Determine the location and characteristics of Water-Wells in Eau Claire County.
- Link well location to water quality testing results.

Project Timeframes

- 2026

Responsible Parties

- The GIS Division
- Eau Claire City-County Health Department

Estimated Budget Information

- See table at the end of this chapter.

Project #7: Development of POWTS Layer

Project Description

- Determine the location and characteristics of Private On-Site Wastewater Treatment System (POWTS) in Eau Claire County.
- **Land Info Spending Category:**
  - Data Development

Business Drivers

- Properly treat or contain human waste to avoid becoming hazardous to human health or polluting the environment.

Objectives/Measure of Success

- Determine the location and characteristics of POWTS in Eau Claire County.
- Link POWTS location to permits and pumping records.

Project Timeframes

- 2026

Responsible Parties

- The GIS Division staff will be responsible for the project
- Eau Claire City-County Health Department

Estimated Budget Information

- See table at the end of this chapter.

Project #8: Register of Deeds Back Indexing of Scanned Documents

Project Description

Index grantor/grantee, legal descriptions and recording information on documents that have been previously scanned and imported into the software.

Land Info Spending Category: Register of Deeds documents

Business Drivers

Online searching availability for government agencies, business partners and general public use.

Objectives/Measure of Success

Index all previously scanned land record documents. Increased search options for internal and external users.

Project Timeframes

Back indexing of scanned images dated 1856 through 1972.

Responsible Parties

Register of Deeds staff will manage record quality and accuracy.

Estimated Budget Information

See table at the end of this chapter.

Project #9: PLSS Maintenance

Project Description

- Eau Claire County has invested heavily in remonumentation/retracement efforts perpetuating the PLSS monuments in the West ½ of the County in Ranges 7, 8, 9 and 10 West. It is essential that these monuments be visited periodically to ensure they and their reference ties remain in good condition and can be useful for future generations. We have begun, and will continue, to revisit these monuments either using internal staff or contractors and update the PLSS records to reflect the most recent visit.
- **Land Info Spending Category:**
  - PLSS

Business Drivers

- Any landowner or user of real property information; business, private or public, relies on the continued development of correct and maintained PLSS corner information.
- Departments affected include, but are not limited to: Parks and Forests, Highway, Planning and Development, Register of Deeds, Treasurer, Department of Natural Resources and the Sheriff's Department for dispatch.

Objectives/Measure of Success

- All corner monuments placed based on best available evidence of original PLSS corner location.
- All monuments established have survey-grade coordinates.
- All corner monuments have at least 4 reference ties.
- All corners in the county have a PLSS monument record on file the Surveyor's Office.

Project Timeframes

- Efforts will be ongoing.

Responsible Parties

- The Eau Claire County Surveyor's Office and any contractors involved.

Estimated Budget Information

- See table at the end of this chapter.

Project #10: Obtain unmanned aerial vehicle equipment

Project Description

- Purchase an unmanned aerial vehicle UAV and software to assist with rezonings, county highway reconstruction projects, non-metallic mines and nutrient management plan sites.
- **Land Info Spending Category:** Non-metallic mines\others

Business Drivers

- Land Conservation and Code Enforcement staff spend hours on sites walking and trying to view properties
- Mine sites and farm fields need to be monitored by staff to comply with permits and county ordinances.
- Video and photos for sites would provide recorded documentation to support staff

Objectives/Measure of Success

- Reduce staff time on sites
- Confirm information submitted by landowners
- Code Enforcement and Land Conservation staff could complete site reviews without walking large tracts of land

Project Timeframes

- TBD

Responsible Parties

- GIS, Code Enforcement, and Land Conservation staff

Estimated Budget Information

- See table at the end of this chapter.

Project #11: Floodplain Mapping Update

Project Description

- Within Eau Claire County the accuracy of floodplain data does not match current needs. During the FEMA Map Modernization program accurate elevation data was rejected due to a lack of current standards. This resulted in many landowners having their property mapped as unstudied floodplain or Zone A. Eau Claire County has an ambitious goal of the elimination all zone A floodplains in the County.
- **Land Info Spending Category:** Other

Business Drivers

- Much of the floodplain in the county is approximate.
- Floodplain zoning became more challenging after map modernization when many studied floodplains reverted to Zone A.
- Accurate floodplains will reduce unnecessary delays for property owners looking to improve their property.
- Accurate floodplains will allow for better zoning administration and reduce the risk of property loss during a flooding event

Objectives/Measure of Success
- All floodplains in Eau Claire County are studied using modern methods including LiDAR data.

Project Timeframes
- TBD

Responsible Parties
- The Land Use Control and GIS Division staff
- Private Surveying firm – Structure and cross section surveys
- Private Engineering firm – Hydrologic and hydraulic mapping

Estimated Budget Information
- See table at the end of this chapter.

Project #12: Metadata Generation and Improvement

Project Description
- Create or update basic metadata for our primary GIS layers.
- **Land Info Spending Category:** Other Meta-Data

Business Drivers
- Updated metadata associated with our GIS data will allow more people to use our data and understand its level of accuracy.

Objectives/Measure of Success
- Metadata is created for all of our publication layers

Project Timeframes
- On going

Responsible Parties
- GIS staff and Interns.

Estimated Budget Information
- See table at the end of this chapter.

Completed Projects
- ROD-completed scanning project in 2023-2024. The project scanned approximately 158,000 documents and 100 index books. These images have been uploaded into the system and are now available to be searched and viewed by the public. These documents date all the way back to 1856 and completes the major portion of records that had not been previously scanned and available online.
- Pro Parcel Fabric Project- Completed our data migration to the Pro Parcel Fabric data framework. We are now live editing in the Pro Parcel Fabric. This project included extensive staff training to manage record driven workflows and data quality.
- Completed our Emergency Service Atlas Project, produced a print ready pdf document and successfully worked with for the DNR and Fire Chiefs receiving a second grant for printing.
- Created Historical aerial imagery of Eau Claire County from USDA ASCS (Agricultural Stabilization and Conservation Service) for 1958 and 1965 web application allowing users to download previously unavailable imagery.
- Shoreland Zoning Update- After updating our GIS Hydro Data to improve the spatial accuracy of surface water features countywide, we needed to update our Shoreland Zoning data to reflect the new spatial location of hydro features.
- Worked with Schneider Geospatial to replace the discontinued WebGuide Extreme GIS website with their Beacon product significantly increasing public access to county land records.

- In 2023 the county participated in WROC (Wisconsin Regional Orthoimagery Consortium) to acquire digital aerial imagery. It was a Spring (leaf off and snow free) flight, 3-inch in the urban area and 6-inch in the rest of the county. The new flight was made available for download on the county's GIS Hub Site.

Estimated Budget Information (All Projects)

Estimated Budget Information				
Project Title	**Item**	**Unit Cost/Cost**	**Land Info Plan Citations** Page # or section ref.	**Project Total**
1) Benchmark 4, Remonumentation	County Surveyor's Office Internal staff		Page 25-26	50,000
2) Countywide Aerial Imagery	Aerial Image Collection		Page 26-27	50,000
3) Countywide LiDAR	LiDAR Collection		Page 27	75,000
4) Highway Right-of-Way Scan	Scanning Project		Page 28	5,000
5) Implementation of 2023 Wisconsin Act 235	Internal Staff		Page 29	5,000
6) Development of Water-Well GIS Layer	GIS Specialist and Health Department Staff		Page 29	10,000
7) Development of POWTS GIS Layer	GIS Specialist and Health Department Staff		Page 29	10,000
8) ROD Back Indexing	ROD-Index land records	$1.50 per document indexed	Page 29-30	50,000
9) PLSS Maintenance	County Surveyor's Office		Page 30	15,000
10) UAS and software	Equipment and software		Page 30-31	25,000
11) Floodplain Update	Contract Services		Page 31	200,000
12) Metadata project	Summer Intern		Page 32	5,000
			GRAND TOTAL	**500,000**

Note. These estimates are provided for planning purposes only. Budget is subject to change.

■   ■   ■