

# Wood County, Wisconsin



## 2022 - 2024 Land Information Plan

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**Version: 2021-11-16**

Approved & Adopted by Land Information Council on: 2021-11-16

# CONTENTS

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- EXECUTIVE SUMMARY .....3
- 1 INTRODUCTION .....4
- 2 FOUNDATIONAL ELEMENTS .....7
  - PLSS.....8
  - Parcel Mapping.....9
  - LiDAR and Other Elevation Data .....11
  - Orthoimagery.....12
  - Address Points and Street Centerlines.....12
  - Land Use .....14
  - Zoning.....15
  - Administrative Boundaries.....16
  - Other Layers.....18
- 3 LAND INFORMATION SYSTEM.....20
  - Public Access and Website Information .....23
- 4 CURRENT & FUTURE PROJECTS .....24
  - Project Plan to Maintain Searchable Format (Benchmarks 1 & 2) .....25
  - Project Plan for PLSS (Benchmark 4) .....25
  - Project #1: 2022 LiDAR Flight and Additional Deliverables .....26
  - Project #2: Historic Air Photo Scanning and Georeferencing .....27
  - Project #3: Next Generation 911 .....27
  - Project #4: Research and Mapping of Right-of-Ways .....28
  - Project #5: Recreation GIS Layers and Maps Development .....28
  - Project #6: Parcel Fabric, Maintenance and Accuracy Improvements .....29
  - Project #7: Website, Data Hosting Services, Software and Hardware  
Maintenance .....29
  - Project #8: Maps and Applications to Support Data Collection .....30
  - Ongoing Costs Not Associated With a Specific Project.....30

# EXECUTIVE SUMMARY

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**About this Document.** This document is a land information plan for Wood County prepared by the land information officer (LIO) and the Wood 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 2020, Wood County was awarded \$55,864 in WLIP grants and retained a total of \$110,904 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 Wood 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 Wood 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 Office.** Eliminate or reduce redundancy through the coordination and modernization of existing services provided by and between departments and agencies participating in the program. Develop and efficient delivery system for products and services offered to the public, and improve the quality of products and services offered to the public.

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

Wood County Land Information Projects: 2022-2024	
Project #1	2022 LiDAR Flight and Additional Deliverables
Project #2	Historic Air Photo Scanning and Georeferencing
Project #3	Next Generation 911
Project #4	Research and Mapping of Right-of-Ways
Project #5	Recreation GIS Layers and Maps Development
Project #6	Parcel Fabric, Maintenance and Accuracy Improvements
Project #7	Website, Data Hosting Services, Software and Hardware Maintenance
Project #8	Maps and Applications to Support Data Collection

The remainder of this document provides more details on Wood 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.

## Act 20 and the Statewide Parcel Map Initiative

A major development for the WLIP occurred in 2013 through the state budget bill, known as Act 20. It directed the Department of Administration (DOA) to create a statewide digital parcel map in coordination with counties.

Act 20 also provided more revenue for WLIP grants, specifically for the improvement of local parcel datasets. The WLIP is dedicated to helping counties meet the goals of Act 20 and has made funding available to counties in the form of Strategic Initiative grants to be prioritized for the purposes of parcel/tax roll dataset improvement.

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 (For 2016-2021 Grant Years)

- 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 Wood County is meeting these benchmarks appears in the Foundational

Elements section of this plan document.

## County Land Information System History and Context

The Wood County Land Information Office was officially formed through County Board Resolution #90-8-8 on August 21, 1990. The Wood County Land Information Office was originally set up under the jurisdiction of the General Claims Committee, with the Wood County Register of Deeds named as the contact person. However with the passage of Resolution #92-6-8 on June 16, 1992, the Wood County Land Information Office was moved to the Wood County Planning and Zoning Office with the Planning and Zoning Committee as the oversight committee. Wood County Land Information Office has remained in the Wood County Planning and Zoning Office ever since.

The first seventeen years of the Land Records Modernization Program (1989 – 2006) focused on establishing the foundation on which much of the program’s future would be built off of. During this time the County purchased Geographic Information Systems (GIS) software, established the staff positions of the Land Information Officer, and the Geographic Information Systems Specialist, and began developing foundational GIS data layers. In the early years of the land records modernization much of the focus was on project prioritization, needs assessments and data creation. The end of this period had many quantifiable achievements that involved significant advances in the county geographic information system. Of particular note was 2005, which saw the “completion” of digital parcel mapping, the first digital aerial photography acquisition and the ArcIMS Interactive GIS Map and Property Tax Data application launched.

Since 2005, much of the focus of the land records modernization has been on maintaining and improving the quality of GIS information, acquiring new data, implementing digital imaging projects, and integrating/linking records from departments and agencies, and developing ways to improve public access to records through web applications.

From the inception of the Land Records Modernization Program, the goals have remained relatively the same, however the objectives have continually been updated as a means to achieve the goals. The objectives have changed from a focus on technical issues and data creating in the early years of the program to maintaining, sharing, publishing, and utilizing data for decision making in recent years.

## County Land Information Plan Process

County land information plans were initially updated every five years. However, as a result of Act 20, counties must update and submit their plans to DOA for approval every three years. The 2022-2024 plan, completed at the end of 2021, is the third post-Act 20 required update.

### County Land Information Plan Timeline

- DOA release of finalized instructions by March 31, 2021.
- April–September 2021: Counties work on land info plans.
- Draft plans due to DOA by September 30, 2021 (but sooner is advised).
- Final plans with county land info council approval due by December 31st, 2021.

### 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 Wood County Land Information Council, and others as listed below.

<b>Wood County Land Information Council</b>				
<b>Name</b>	<b>Title</b>	<b>Affiliation</b>	<b>Email</b>	<b>Phone</b>
<b>Paul Bernard</b>	Land Records Coordinator	Wood County Planning and Zoning	pbernard@co.wood.wi.us	715-421-8469
<b>Kevin Boyer</b>	County Surveyor	Wood County Surveyor	kboyer@co.wood.wi.us	715-421-8528
<b>Nancy Marti</b>	Real Property Lister	Wood County Treasurer's Office	nmarti@co.wood.wi.us	715-421-8479
<b>Kenneth A Curry</b>	County Board Member	Wood County Board	Wcdistrict11@co.wood.wi.us	715-459-3392
<b>Tiffany Ringer</b>	Register of Deeds	Wood County Register of Deeds Office	tringer@co.wood.wi.us	715-421-8455
<b>Brian Spranger</b>	Realtor	First Weber	sprangerb@firstweber.com	715-572-7117
<b>Lori Heideman</b>	Dispatch Manager	Wood County Dispatch Center	lheideman@co.wood.wi.us	715-421-8668
<b>Heather Gehrt</b>	Treasurer	Wood County Treasurer's Office	hgehart@co.wood.wi.us	715-421-8482
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\* All of the above named people are members of the Wood County Land Information Council

# 2 FOUNDATIONAL ELEMENTS

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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) <b>set in original government survey</b> that can be remonumented in your county	• 2,615
Number of PLSS corners capable of being remonumented in your county that <b>have been remonumented</b>	• 2,615 (100%)
Number of remonumented PLSS corners with survey grade coordinates (see below for definition) <ul style="list-style-type: none"> <li>• <b>SURVEY GRADE</b> – 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</li> <li>• <b>SUB-METER</b> – point precision of 1 meter or better</li> <li>• <b>APPROXIMATE</b> – point precision within 5 meters or coordinates derived from public records or other relevant information</li> </ul>	• 2,615 (100%)
Number of survey grade PLSS corner coordinates integrated into county digital parcel layer	• 2,615 (100%)
Number of non-survey grade PLSS corner coordinates integrated into county digital parcel layer	• 0
Tie sheets available online?	• Yes <a href="https://gis.co.wood.wi.us/Land-Records-Viewer-001/">https://gis.co.wood.wi.us/Land-Records-Viewer-001/</a>
Percentage of remonumented PLSS corners that have <b>tie sheets available online</b> (whether or not they have corresponding coordinate values)	• 100%
Percentage of remonumented PLSS corners that have tie sheets available online (whether or not they have corresponding coordinate values) <b>and a corresponding URL path/hyperlink value</b> in the PLSS geodatabase	• 100%
PLSS corners believed to be remonumented based on filed tie-sheets or surveys, but do not have coordinate values	• 0
Approximate number of PLSS corners believed to be lost or obliterated	• 0
Which system(s) for <b>corner point identification/ numbering</b> 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)?	<ul style="list-style-type: none"> <li>• Romportl numbering system also known as Wisconsin Corner Point Identification System</li> <li>• Bureau of Land Management (BLM) Point ID</li> <li>• Wood County Internal Numbering System</li> </ul>
Does the county contain any <b>non-PLSS areas</b> (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	• 241
Number of PLSS corners remonumented along each county boundary	• 241 (100%)
Number of remonumented PLSS corners along each county boundary with survey grade coordinates	• 241 (100%)
In what ways does your county collaborate with or plan to collaborate with neighboring counties for PLSS updates on shared county borders?	• Yes, the Wood County Surveyor notifies surrounding counties with updated tie sheets and coordinates. All tie sheets are available on our Land Records Viewer

### Custodian

- County Surveyor and Land Information Office

### Maintenance

- Ongoing maintenance of the PLSS will be accomplished through a planned, long-term program with the goal of occupying each corner every ten to fifteen years, depending on location, condition, and other significant factors (such as road construction). There is also an annual contract to ensure that corners affected by road construction are occupied both before and after the road construction occurs. There is a bounty program that awards surveyors for submitting tie sheets and coordinates.



## 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 requirement.
- 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

## Other Geodetic Control and Control Networks

### High Accuracy Reference Network (HARN)

#### Layer Status

- Wood County completed a densification from stations within the Wisconsin High Accuracy Reference Network (HARN) in 1995 with the assistance of a WLIP grant. In total, 104 monuments are included in this network: 12 16" diameter x 5' deep concrete monuments built to DOT specifications, 5 NGS monuments that were already in existence, 75 6" diameter by 7' deep concrete and steel monuments designed by local surveyors, and 12 section corner monuments, all of which are Harrison or Waupaca Foundry cast iron.

#### Custodian

- County Surveyor and Land Information Office

#### Maintenance

- None

#### Standards

- The Wood County geodetic network was developed with three levels of accuracy, and complies with the WLIB Specifications and Guidelines to support Densification of the Wisconsin High Accuracy Reference Network (HARN) using GPS Technology.

## Parcel Mapping

### Parcel Geometries

#### Layer Status

- **Progress toward completion/maintenance phase:** 100% of the country's parcels are available in a commonly used digital GIS format.
- **Spatial Reference:** Parcels are edited in the following Projected & Geographic Coordinate System:
  - Projected Coordinate System: NAD 1983 HARN Wisconsin CRS Wood
  - Projection: Lambert Conformal Conic
  - Authority: EPSG
  - WKID: 8096
  - Geographic Coordinate System: NAD 1983 HARN
  - Authority: EPSG
  - WKID: 4152
- **Integration of tax data with parcel polygons:** Tax and assessment attributes are maintained by the Real Property Lister, these attributes are joined the Tax Parcel geometry during the publication process.
- **Online Parcel Viewer Software/App and Vendor name:** Wood County uses ESRI WebAppBuilder for ArcGIS Developer Edition to create and maintain the Online Parcel Viewer.
- **Unique URL path for each parcel record:**
  - GCS Land Records Management Software –  
<https://propertytax.co.wood.wi.us/gcswebportal/search.aspx?parcelnumber=<value>>

- Land Records Viewer – <https://gis.co.wood.wi.us/Land-Records-Viewer-001/index.html?find=<value>>
- where <value> is the Parcel Identification Number (PIN)

#### Custodian

- Land Records Coordinator and Real Property Lister

#### Maintenance

- **Update Frequency/Cycle:** Parcel geometry and attributes are updated on a regular basis. The tax parcels are typically updated weekly.

#### Standards

- Wood County has worked very hard to adhere to the Statewide Parcel Map Initiative standard. In recent years thanks to the acquisition of GCS Land Records Management Software and improvements in our Site Address Point Data we have been able to regularly publish to the Statewide Parcel Map Initiative schema. This schema has become Wood County's schema with very few modifications. While there is some metadata present on the layer itself and on our Open Data page, the most complete metadata is actually one and the same of the Statewide Parcel Map Initiative which can be found here: <https://www.sco.wisc.edu/parcels/data/>

## Assessment/Tax Roll Data

#### Layer Status

- **Progress toward completion/maintenance phase:** NA
- **Tax Roll Software/App and Vendor name:** GCS Land Records Management Software

#### Custodian

- County Treasurer and Real Property Lister

#### Maintenance

- **Maintenance of the Searchable Format standard:** To maintain the Searchable Format standard, the county will continue to support the export scripts needed to format tax roll attributes to the searchable format in a way that they can be joined to parcel polygons.
  - **Searchable Format Workflow:** The county maintains parcel/tax roll data in the Searchable Format or close enough to the Searchable Format that **little to no human labor is required** for the annual submission of parcel/tax roll data to DOA.

#### Standards

- Wisconsin Department of Revenue [Property Assessment Manual](#) and attendant DOR standards
- DOR XML format standard requested by DOR for assessment/tax roll data
- s. 73.03(2a), Wis. Stats. Department of Revenue (DOR) – Powers and duties defined. Department of Revenue Property Assessment Manual – Chapter 5 and DOR format standard requested by DOR for assessment/tax roll data
- S. 59.72(2)(a), Wis. Stats. Presence of all nine “Act 20” attributes
- S. 59.72(2)(a), Wis. Stats. Crosswalk of attributes

## ROD Real Estate Document Indexing and Imaging

#### Layer Status

- **Grantor/Grantee Index:** In process of back indexing. Deeds and miscellaneous records are indexed to approximately 1930. Mortgages are back indexed to approximately 1976. Lis Pendens indexed to June 1, 1996 (all are scanned). All this relates to our computer system, i.e., Avid via Fidlar Technologies. We have paper grantor/grantee indexes from the beginning of Wood County (1856).
- **Tract Index:** PLSS based – Computer tract goes back to August 1, 1999. Paper tract available from 1856. Tract books are scanned into the computer system.
- **Imaging:** Not imaged are corporate records as well as 30+ year old mortgages.
- **ROD Software/App and Vendor Name:** Fidlar Laredo/Tapestry/Avid

#### Custodian

- Register of Deeds

## Maintenance

- New documents are recorded, scanned and indexed daily.

## 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:** 2015
- **Accuracy:** QL3
- **Nominal Pulse Spacing:** 1 meter
- **Contractor's standard, etc.:** A comparison of the ground survey versus LiDAR model values indicates a vertical root mean square error (RMSEz) of 0.399 feet. This is well within the FEMA specified vertical accuracy tolerance of 0.61 feet. RMSEz varies depending on land cover:
  - RMSEz – Urban 0.110 US Survey Feet
  - RMSEz – Low Grass 0.139 US Survey Feet
  - RMSEz – Tall Grass 0.319 US Survey Feet
  - RMSEz – Low Trees 0.322 US Survey Feet
  - RMSEz – Tall Trees 0.397 US Survey Feet
- **Next planned acquisition year:** 2022
- **QL1/QL2 acquisition plans:** leveraging funds from the 3DEP program we will have the opportunity to acquire QL1 LiDAR at a quarter of the cost.

### Custodian

- Land Records Coordinator

### Maintenance

- LiDAR data is not actively maintained or updated. The next project is planned for 2022.

### 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), Hydro-Enforced DEMs, etc.**

### Layer Status

- LiDAR derivatives are listed below and are derived from the 2015 LiDAR flight:
  - 2 foot contours
  - Bare Earth LAS
  - Point Cloud LAS
  - Breaklines
  - Digital Elevation Model (DEM)
  - Digital Terrain Model (DTM)
  - Digital Surface Model (DSM)
  - Intensity Images

### Custodian

- Land Records Coordinator

### Maintenance

- LiDAR data is not actively maintained or updated. The next project is planned for 2022.

### Standards

- USGS LiDAR Base Specification

## Orthoimagery

### Orthoimagery

#### Layer Status

- **Most recent acquisition year:** 2020
- **Resolution:** 6 Inch
- **Contractor's standard:** ASPRS Class II horizontal accuracy specifications at 1" = 100' map scale. The horizontal accuracy meets or exceeds 2.0 feet RMSE using the National Standards for Spatial Data Accuracy (NSSDA) standards.
- **Next planned acquisition year:** 2025

#### Custodian

- Land Records Coordinator

#### Maintenance

- New Orthoimagery is acquired every five years through the Wisconsin Regional Orthophotography Consortium (WROC) program. The next flight is planned for 2025.

#### Standards

- National Map Accuracy Standards

### Historic Orthoimagery

#### Layer Status

Wood County, like most other counties has a wide variety of historic aerial imagery dating as far back as the mid-thirties. The most comprehensive list of historic aerial imagery can be found on the Wisconsin State Cartographer's Office (SCO) website. The website allows users to search any county in Wisconsin for imagery, and submit updates or revisions to the index if necessary. Most of the historic imagery for Wood County is not in a digital format that is usable in the GIS. Wood County does not have the original film or images for most of the historic aerial imagery because the county did not commission the acquisition of the imagery.

The first time that Wood County contracted to have the entire county flown was in 2005. This 18" black and white project was part of a consortium coordinated by the North Central Regional Planning Commission. Five years later the county acquired 18" color digital orthophotography through the Wisconsin Regional Orthophotography Consortium (WROC).

#### Custodian

- Land Records Coordinator

### Other Types of Imagery

**e.g., Oblique Imagery, Satellite Imagery, Infra-red, etc.**

#### Layer Status

- Wood County has only contracted for traditional Imagery in the past. There has been thoughts of having drone imagery, satellite imagery or oblique imagery but it has been hard to justify or prioritize over other projects.

## Address Points and Street Centerlines

### Address Point Data

#### Layer Status

- Site address points exist for every known address in the county. There has been a considerable amount of effort spent in recent years to make sure our Site Address Point dataset includes every single address in the county, much of this effort was focused on reconciling the Tax Roll, InfoUSA, ALI and local utility company address lists.
- Wood County Emergency Management Agency is the county authority on addressing and it assigns new addresses for most municipalities. Several municipalities do their own addressing – the Town of Grand Rapids, Village of Biron, Village of Rudolph, Village of Milladore, Village of Port Edwards, City of Pittsville, City of Marshfield and City of Wisconsin Rapids.

### **Custodian**

- Wood County Emergency Management Agency
- Land Records Coordinator
- Various Municipalities that do their own addressing

### **Maintenance**

- Site address points are created or modified upon notification by an addressing authority.

### **Standards**

- Wisconsin GIS NG9-1-1 Data Standard (working towards)
- Wisconsin Land Information Association Address Point Data Standard (working towards)
- Computer Aided Dispatch vendor (Computer Information Systems) specific requirements

## **Building Footprints**

### **Layer Status**

- Following the 2020 Orthophotography flight, The Cities of Marshfield and Wisconsin Rapids both contracted out for various planimetrics including building footprints. Wood County then did a separate contract for digitizing building footprints that were not included in either cities contract. The combination of all three contracts has produced county-wide building footprints.

### **Custodian**

- Land Records Coordinator

### **Maintenance**

- Building footprints are based off of the most recent orthophotography. Wood County may work with the Cities of Marshfield and Wisconsin Rapids in 2025 following the next flight to update the Building Footprints.

### **Standards**

- Internal Business Needs

## **Other Types of Address Information**

### **Layer Status**

- Following ESRI's Local Government information model, Wood County has developed a few enhancing features to aid in dispatching, emergency management and other business needs. These features are listed and briefly explained below:
  - Address Points – the theoretical point on the road centerline at which a given address has been assigned.
  - Address Entrance Points – the point at which a vehicle would gain access to a given address, typically a driveway entrance.
  - Point to Site Connection Lines – a line that connects the address point to the site address point.
- These address enhancing features are only available in rural areas.

### **Custodian**

- Land Records Coordinator

### **Maintenance**

- These address enhancing features are typically updated with each new orthophotography flight. We are currently looking into GPSing new features as addresses are assigned.

### **Standards**

- ESRI Local Government Information Model

## **Street Centerlines**

### **Layer Status**

- All public and private street and highway centerlines are mapped for the county.
- Centerline data is very attribute rich supporting all business needs of the county.
- The road centerlines were re-digitized after the 2020 orthophotography flight which was a massive improvement over our previous road centerline dataset in terms of geometry.

### Custodian

- Land Records Coordinator

### Maintenance

- Data is updated when new roads are created, existing roads are vacated or if road names are changed and/or clarified.

### Standards

- Wisconsin GIS NG9-1-1 Data Standard (working towards)
- Wisconsin Land Information Association Street Centerline Data Standard (working towards)
- Computer Aided Dispatch vendor (Computer Information Systems) specific requirements

## Rights of Way

### Layer Status

- Approximate right-of-way is available for all of Wood County. A comprehensive determination of right-of-way ownership and transfers has not been completed.
- **How maintained:** The Right-of-Way is maintained as a subset of the Simultaneous Conveyance Division in the ESRI ArcGIS Pro Parcel Fabric. It is selected out as its own stand-alone layer during our publication process.

### Custodian

- Land Records Coordinator

### Maintenance

- Updated regularly in conjunction with our parcel mapping to reflect surveys, transportation plats and deeds.

### Standards

- Internal Business Needs

## Trails

### Layer Status

- Recreation trail routes are maintained in the county parks as well as bicycle and pedestrian trails throughout the county. Snowmobile trails for the entire county are mapped, and ATV trails on county property are mapped. Public roads that are open to ATV traffic are mapped.

### Custodian

- Land Records Coordinator

### Maintenance

- New trail segments are GPS'd as they are added. Existing trails are GPS'd as time allows.

### Standards

- Internal Business Needs

## Land Use

### Current Land Use

#### Layer Status

- Land use maps are available for all townships in Wood County and created using the Land Based Classification Standards. Land use mapping for cities and villages will be completed in the future on as-needed basis. Land use codes that are used in the tax parcel database are compliant with the Department of Revenue Land Use Classification System.

#### Custodian

- Planning and Zoning

#### Maintenance

- Land use maps are updated as projects require and based off of the most recent imagery available at that time. Most townships have not been remapped since the creation of the layer over 10 years ago.

#### Standards

- American Planning Association Land Based Classification Standards (LBCS)

## Future Land Use

### Layer Status

- Future Land Use was created as a product of the Wood County Comprehensive Plan that was completed in 2010. Future Land Use is based off of wetlands, floodplains, and water bodies that limit or prohibit future development.

### Custodian

- Planning and Zoning

### Maintenance

- Future Land Use maps would be updated along subsequent comprehensive plans.

### Standards

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

## Zoning

### County General Zoning

#### Layer Status

- Not administered by county.

### Shoreland Zoning

#### Layer Status

- The county does maintain a GIS representation of county shoreland zoning boundaries. Shoreland areas were determined by buffering the hydrography layer as defined by the County Shoreland Zoning Ordinance. This layer is only a graphical representation and not an official boundary delineation.

#### Custodian

- Planning and Zoning
- Land Records Coordinator

#### Maintenance

- Shoreland Zoning buffers will be updated as hydrography layers are improved.

#### Standards

- Wood County Shoreland Zoning Ordinance

### Farmland Preservation Zoning

#### Layer Status

- Not administered by county.

### 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](#).
- In 2010, Federal Emergency Agency (FEMA) initiated a floodplain mapping update. Although the mapping used the best available information, accurate LiDAR elevation data is now available and should be used to accurately delineate floodplains.

#### Custodian

- Federal Emergency Management Agency
- Land Records Coordinator

#### Maintenance

- Updated when FEMA updates their data.

#### Standards

- Standards set by Federal Emergency Management Agency

## Airport Protection

### Layer Status

- Not administered by county.

## Municipal Zoning Information Maintained by the County

### Layer Status

- There are many towns, cities and villages that are zoned in Wood County. With the exception of the City of Wisconsin Rapids and the City of Marshfield, Wood County works with each zoned municipality to create updated GIS layers for Municipal Zoning. These layers are then used in web applications specific to each municipality that Wood County hosts.
- Extra-Territorial Boundaries are maintained for the three municipalities that have the boundaries – Village of Port Edwards (1.5 miles), City of Marshfield (3 miles), City of Wisconsin Rapids (3 miles).

### Custodian

- Planning and Zoning
- Land Records Coordinator

### Maintenance

- Municipal Zoning is maintained on a regular basis but this does depend heavily on which municipality it is for as some municipalities are more expedient in notifying the county of updates.

### Standards

- Internal Business Needs

## Administrative Boundaries

### Civil Division Boundaries

#### Layer Status

- The civil boundaries within Wood County were constructed using our parcel data, PLSS data and annexation documents.

#### Custodian

- Land Records Coordinator

#### Maintenance

- As needed to reflect annexations

#### Standards

- Consolidated Boundary Annexation Survey (CBAS)

### School Districts

#### Layer Status

- **Progress toward completion/maintenance phase:** in Maintenance Phase
- **Relation to parcels:** School Districts is a field that is found in the tax database and is populated for every tax parcel record in Wood County
  - **Attributes linked to parcels:** the "SCHOOLDIST (School District)" and "SCHOOLDISTNO (School District Number)" fields that are found in our tax parcels are populated directly from the tax database.

#### Custodian

- Real Property Lister
- Land Records Coordinator

#### Maintenance

- As needed

#### Standards

- Consolidated Boundary Annexation Survey (CBAS)



## Election Boundaries

e.g., Voting Districts, Precincts, Wards, Polling Places, etc.

### Layer Status

- The county created municipal ward, aldermanic and supervisory districts during the 2020 redistricting.

### Custodian

- County Clerk
- Land Records Coordinator

### Maintenance

- As needed to reflect annexations and elections.

### Standards

- Consolidated Boundary Annexation Survey (CBAS)

## Emergency Service Boundary – Law/Fire/EMS

### Layer Status

- **Law Enforcement:** Law Enforcement boundaries are fully integrated with the Emergency Service Boundaries and are extracted during our publication process.
- **Fire:** Fire boundaries are fully integrated with the Emergency Service Boundaries and are extracted during our publication process.
- **EMS:** EMS boundaries are fully integrated with the Emergency Service Boundaries and are extracted during our publication process.

### Custodian

- Land Records Coordinator
- Dispatch Manager

### Maintenance

- The Emergency Service Boundaries are updated as needed.

### Standards

- Wisconsin GIS NG9-1-1 Data Standard (working towards)
- Computer Aided Dispatch vendor (Computer Information Systems) specific requirements

## Public Safety Answering Points (PSAP) Boundary

### Layer Status

- **PSAP Boundary:** The PSAP Boundary is one and the same as the Wood County Boundary.

### Custodian

- Land Records Coordinator
- Dispatch Manager

### Maintenance

- Update as needed

### Standards

- Wisconsin GIS NG9-1-1 Data Standard (working towards)
- \*Computer Aided Dispatch vendor (Computer Information Systems) specific requirements

## Provisioning Boundary

### Layer Status

- The Provisioning Boundary is one and the same as the Wood County Boundary.

### Custodian

- Land Records Coordinator
- Dispatch Manager

### Maintenance

- Update as needed

### Standards

- Wisconsin GIS NG9-1-1 Data Standard

- Computer Aided Dispatch vendor (Computer Information Systems) specific requirements

## Native American Lands

### Layer Status

- All Native American lands are included in the County Tax Parcels and can be queried and mapped on request.

### Custodian

- Real Property Lister
- Land Records Coordinator

### Maintenance

- The Native American Lands are maintained in the tax parcel layer so that changes in ownership reflected in the tax database will be reflected in the tax parcels.

### Standards

- Statewide Parcel Map Initiative Standards

## Other Administrative Districts

### Layer Status

- Wood County has 7 recreational parks, 38,000 acres of county forest land and 18,500 acres of Wood County State Wildlife area. All public lands are included in the County parcel mapping database. Additionally, public land amenities such as beaches, campgrounds, boat access, etc. are mapped to support map creation.

### Custodian

- Parks and Forestry
- Land Records Coordinator

### Maintenance

- Updated as needed.

### Standards

- Internal Business needs

## Other Layers

### Hydrography Maintained by County or Value-Added

#### Layer Status

- Hydrography has been digitized off of the 2020 Air Photo.

#### Custodian

- Land Records Coordinator

#### Maintenance

- Hydrography layers are edited against aerial photography and LiDAR layers as time allows.

#### Standards

- Internal Business Needs
- USGS Elevation-Derived Hydrography Specifications

## Cell Phone Towers

### Layer Status

- Cell phone towers are mapped to support Dispatch.

### Custodian

- Land Records Coordinator

### Maintenance

- Updated as needed

### Standards

- Computer Aided Dispatch vendor (Computer Information Systems) specific requirements

## Bridges and Culverts

### Layer Status

- Wood County does not currently have a layer for Bridges, we have been using the GIS data for bridges from the Wisconsin Department of Transportation that has been sufficient for our business needs.
- The Wood County Highway Department has started a culvert inventory that covers County Highways.

### Custodian

- Highway Department
- Land Records Coordinator

### Maintenance

- The Wood County Highway Department continues to build and maintain their culvert inventory. We are currently looking into getting a LiDAR derived culvert inventory which would result in a much more complete dataset in terms of geometry.

### Standards

- Internal Business Needs

## Non-Metallic Mining

### Layer Status

- The Non-Metallic Mining layer is actively maintained by the Wood County Conservation department. Mining sites are visited periodically and acreages are tracked on each site.

### Custodian

- Land and Water Conservation

### Maintenance

- Maintenance is ongoing and sites are periodically visited.

### Standards

- Internal Business Needs

## Railroads

### Layer Status

- Railroad centerlines were digitized off of the 2020 aerial photography.

### Custodian

- Land Records Coordinator

### Maintenance

- Updated as needed.

### Standards

- Internal business needs

# 3 LAND INFORMATION SYSTEM

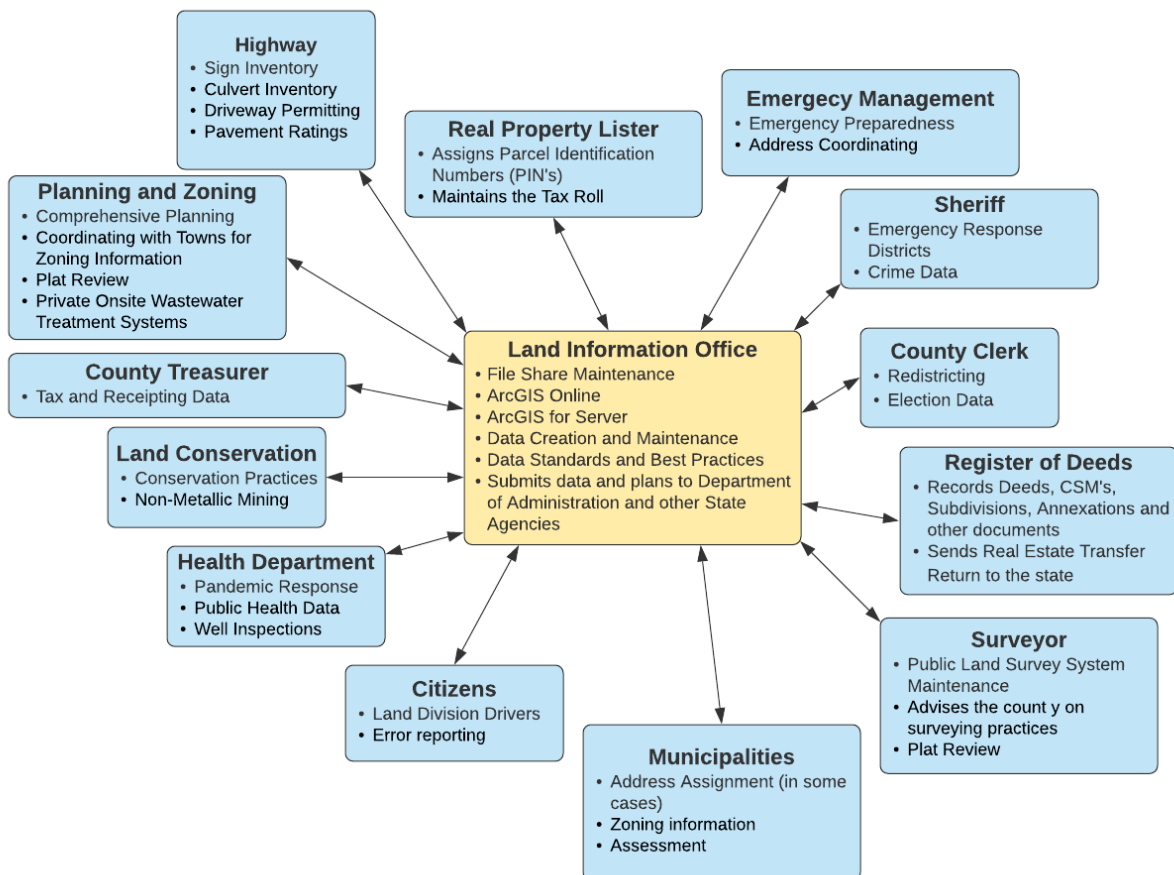
The WLIP seeks to enable land information systems that are both modernized and integrated. Integration entails the coordination of land records to ensure that land information can be shared, distributed, and used within and between government at all levels, the private sector, and citizens.

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

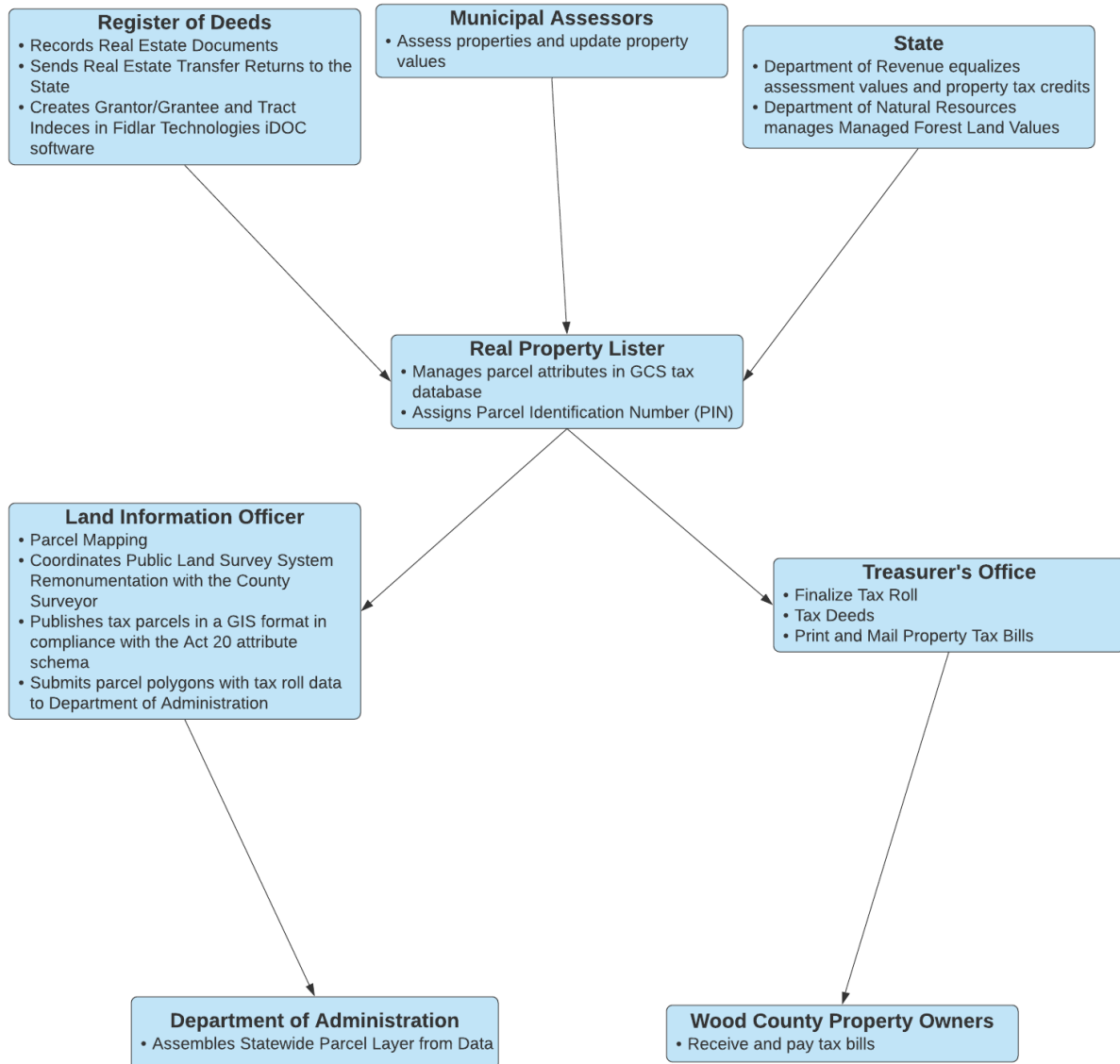
The design, development, and implementation of a land information system that contains and integrates, at a minimum, property and ownership records with boundary information, including a parcel identifier referenced to the U.S. public land survey; tax and assessment information; soil surveys, if available; 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 Diagram of County Land Information System



## County Parcel Data Workflow Diagram



## 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.

The Wood County Land Information System runs on Wood County's local area network and is supported by the Information Systems (IS) Department. The IS Department is committed to supporting all activities of the Land Records Modernization Program and has been a reliable contributor to system development and support.

Wood County Land Information uses two Windows Server 2019 virtual machines (DB-GIS20 and WEB-GIS), Amazon Web Services and ArcGIS Online. DB-GIS is the file server, WEB-GIS is the web server. Both of these machines run on ArcGIS Server Standard Workgroup to support data editing and publishing web services. Amazon Web Services and ArcGIS Online are employed to decrease demand on WEB-GIS, data backups and document storage.

## Hardware

- DB-GIS20 Windows Server 2019 virtual server
- WEB-GIS Windows Server 2019 virtual server
- Trimble Geo 7x GPS Unit
- Trimble R1 GPS Unit

## Software

- ArcGIS for Server
- ArcGIS Desktop
- **County currently uses ArcGIS Pro:** Yes
- **County plans to upgrade to ArcGIS Pro:** Yes – Already upgraded

## Website Development/Hosting

- All website development is done in-house, ArcGIS Online or Amazon Web Services (AWS).
- Web Applications are developed using ArcGIS Online and ArcGIS Web AppBuilder Developer Edition.

## Metadata and Data Dictionary Practices

### Metadata Creation

- **Metadata creation and maintenance process:** Metadata is created and maintained for Wood County GIS layers that are shared in our open data portal. It is a long term goal to have solid metadata on all Wood County GIS layers.

### Metadata Software

- **Metadata software:**
  - The software does generate metadata consistent with the FGDC Content Standard for Digital Geospatial Metadata, and ISO geographic metadata standard 19115.
  - ArcCatalog is used for Metadata creation.
- **Metadata fields manually populated:** Summary, Abstract, Use Limitations and occasionally data layer fields are manually populated.

## Municipal Data Integration Process

- The cities of Marshfield and Wisconsin Rapids are the only two municipalities with in-house GIS staff. Of those two, Marshfield edits their own parcel data in GIS. Marshfield shares parcels, addresses, roads etc. to incorporate in countywide datasets. Wisconsin Rapids accesses county parcel and other base layers through an ArcGIS Server Geodata Service.
- In the past, the Land Information Office has provided data to any contractors that are working on projects for municipalities. In fact, some contractors even incorporate county web services via REST into municipal projects.

## Public Access and Website Information

### Public Access and Website Information (URLs)

#### 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
<a href="https://gis.co.wood.wi.us/">https://gis.co.wood.wi.us/</a>	<a href="https://opendata.woodcogis.com/">https://opendata.woodcogis.com/</a>	<a href="https://propertytax.co.wood.wi.us/gc/webportal/search.aspx">https://propertytax.co.wood.wi.us/gc/webportal/search.aspx</a>	<a href="https://www.co.wood.wi.us/departments/rod/landrecords.aspx">https://www.co.wood.wi.us/departments/rod/landrecords.aspx</a>

#### Single Landing Page/Portal for All Land Records Data

##### URL

<https://www.co.wood.wi.us/departments/pz/landrecords.aspx>

#### Web Services/REST End Points

##### URL

<https://gis.co.wood.wi.us/gis/rest/services>

#### Municipal Website Information

Municipal Website	Municipal Website URL
City of Wisconsin Rapids	<a href="https://www.wirapids.org/maps-gis.html">https://www.wirapids.org/maps-gis.html</a>
City of Marshfield	<a href="https://comgis.ci.marshfield.wi.us/mpv/">https://comgis.ci.marshfield.wi.us/mpv/</a>

## Data Sharing

### Data Availability to Public

Wood County makes land records information available according to the requirements of the Wisconsin Open Records Law. The public has free, both in terms of cost and barriers, access to land records through the county interactive land records viewer map, The Land Records Portal and Open Data Portal. Even costly data like orthophotography and LiDAR are available for free.

### Data Sharing Restrictions and Government-to-Government Data Sharing

#### Data Sharing Restrictions

- Wood County imposes no use restrictions. Users are free to share and adapt the data for any purpose, even commercially. We do ask that users give appropriate attribution of our source data.

#### Government-to-Government Data Sharing

- Data sharing is encouraged because of the resulting cost savings and efficiencies. The county has used both formal and informal agreements to share data when necessary. Wood County does not require agreements for Government-to-Government data sharing.

## Training and Education

The Land Information Office has offered GIS training sessions that were open to other governmental agencies and the general public. We support training opportunities offered by the Wisconsin Land Information Association (WLIA) and ESRI Wisconsin User Group (EWUG) because they are effective ways of providing information on timely topics at a reasonable price.

All county staff have internet access to online training or coursework, and participation in training sessions is encouraged. On occasion, educational sessions and demonstrations are presented to staff, elected officials and the general public.

WLIP Training and Education funds are used to supplement the cost of sending staff to training at conferences and workshops.

# 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.

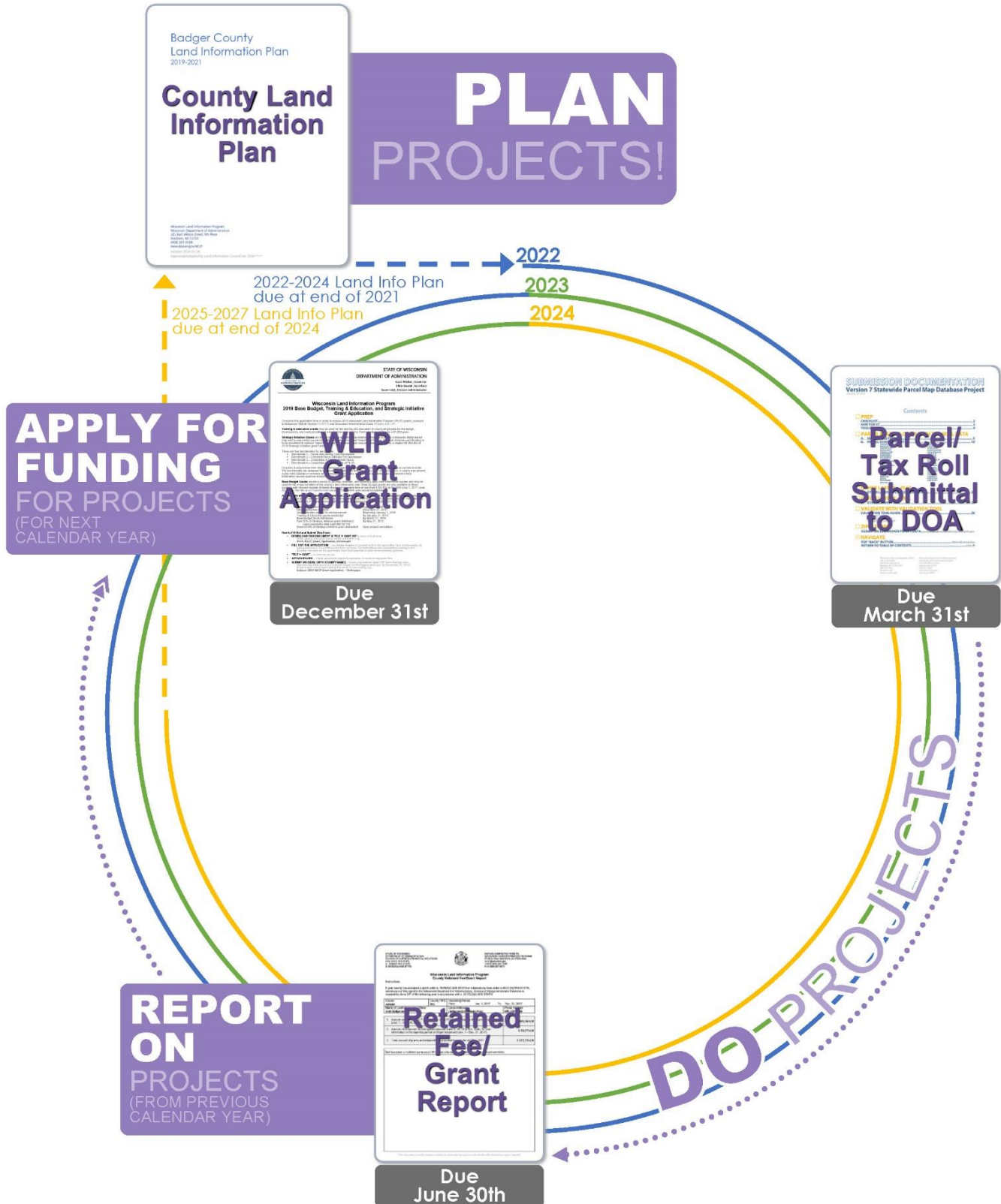


Figure 1. The WLIP Land Information Plan/Grant Project Cycle



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

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

#### Project Description/Goal

##### How Searchable Format Will Be Maintained

- Wood County will continue to support the export scripts needed to format tax roll attributes to the searchable format in a way that they can be joined to parcel polygons.

#### Business Drivers

- The Project Plan to Maintain Searchable Format for Benchmarks 1 & 2 is a requirement for those counties who utilize Strategic Initiative funds for parcel/tax roll formatting to prepare the 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

- Maintenance of the Searchable format is an ongoing effort and data is submitted to the Department of Administration by March 31<sup>st</sup> annually.

#### Responsible Parties

- Land Records Coordinator
- Real Property Lister

#### Estimated Budget Information

- Staff time should be minimal barring any extensive change to the Searchable Format.
- Since our publication routines publish to the Searchable Format on a regular basis, the cost of Benchmarks 1 & 2 maintenance has been placed in Project #7 – Parcel Fabric Maintenance and Accuracy Improvements.

## Project Plan for PLSS (Benchmark 4)

### Project Title: Project Plan for PLSS (Benchmark 4)

#### Project Description/Goal

##### Planned Approach

- Since 2018, Wood County has enjoyed 100% PLSS monumentation with survey grade coordinates. PLSS maintenance will be accomplished through:
  - Monumentation projects which will ensure that each corner is visited every 10-15 years as well as ensuring that PLSS corners effected by road construction are visited before and after construction.
  - Bounty Program that awards surveyors for submitting tie sheets and survey-grade coordinates

##### Current Status

- **Tally of the total number of corners:** 2615
- **Remonumentation status:** 2615
- **Coordinate status (accuracy class) if known:** Survey-Grade

##### Goals

- **Number of corners to be remonumented and/or rediscovered:** Around 300
- **Number to have new coordinates established:** Around 300
- **Accuracy class for these new coordinates:** Survey-Grade
- **Way in which these points will be integrated into the parcel fabric:** New corners are imported into PLSS layers which are used as the basis for the parcel fabric.

### Missing Corner Notes

- **Documentation for any missing corner data:** None

### County Boundary Collaboration

- The Wood County Surveyor notifies surrounding counties with updated tie sheets and coordinates.

### Business Drivers

- The Project Plan for PLSS is a requirement for those counties who utilize Strategic Initiative funds for work related to PLSS completion and integration.
- Wood County has spent considerable resources to ensure that every monument has been visited, continuous maintenance is necessary to stay at this high standard.
- PLSS monuments are the fundamental building blocks for land descriptions and property ownership.
- Surveyors, engineers, realtors and other professionals rely on accurate land information.
- Parcel Mapping improvements

### Objectives/Measure of Success

- 100% PLSS monumentation with Survey-Grade coordinates
- Every monument has a recent tie sheet online
- Monuments are maintained before and after road construction

### Project Timeframes

- PLSS monumentation is an ongoing effort and will run the entire plan period.

### Responsible Parties

- County Surveyor
- Contracted Surveyors
- Land Records Coordinator

### Estimated Budget Information

- \$ 30,000

## Project #1: 2022 LiDAR Flight and Additional Deliverables

### Project Description/Goal

- Obtain countywide QL1 LiDAR in 2022.
- **Land Info Spending Category:** LiDAR

### Business Drivers

- LiDAR has become one of the most important foundational elements, it supports all sorts of applications that are important for many county operations.
- Conservation, Highway, Planning and Zoning and other departments are able to save a ton of time in field work as LiDAR data of this accuracy can accurately depict ground conditions.
- The acquisition of additional deliverables such as a county wide culvert inventory is much more feasible with the support of LiDAR as opposed to more traditional means.
- Through the 3D Elevation Program (3DEP) we have the unprecedented opportunity to have 75% of the project funded.
- The LiDAR data will be available to the public once it has been delivered.
- The QL1 LiDAR is much more dense than our current LiDAR from 2015.

### Objectives/Measure of Success

- Delivery of LiDAR meeting all project specifications

## Project Timeframes

Timeline – Project #1 Title		
Milestone	Duration	Date
Project planning, getting project partners and contracts signed.	-	2021-2022
LiDAR Flight	-	Spring 2022
Base Deliverables Delivered	-	Late 2022
Additional Deliverables Delivered	-	2023

### Responsible Parties

- Land Records Coordinator
- 3DEP Contractor
- Ayres Contractor

### Estimated Budget Information

- \$ 90,000 for base deliverables
- \$ 50,000 for additional deliverables

## Project #2: Historic Air Photo Scanning and Georeferencing

### Project Description/Goal

- Wood County has contracted to do a new air photo flight every 5 years since 2005. There are many air photo flights that have taken place before then dating back to the 1930's.
- Many of the previous flights are not available in a digital format and none are georeferenced to a standard where we could use them as a basemap.
- There are around 15 historic flights that would be of interest to Wood County.
- **Land Info Spending Category:** Orthoimagery

### Business Drivers

- See historic land use and development
- See where roads and railroads had been previously laid out
- Once hard-to-access information would be integrated seamlessly into online and public-facing applications.
- Wisconsin Society of Land Surveyors (WSLS) has expressed interest in the 1938 Air Photos.

### Objectives/Measure of Success

- Scan, index and georeferenced historic air photos for Wood County, producing base maps that are suitable for use in our online applications.

### Project Timeframes

- The main goal is to set up a workflow where we can start scanning, indexing and georeferencing historic air photo flights at the rate of about 1 every year.

### Responsible Parties

- Land Records Coordinator

### Estimated Budget Information

- Since we do not plan to contract any work for this project out, the project cost has been made a part of "Ongoing Costs Not Associated With a Specific Project".

## Project #3: Next Generation 911

### Project Description/Goal

- The Wisconsin Department of Military Affairs (DMA) in collaboration with the Wisconsin Land Information Association (WLIA) has developed a Standards and Best Practices for Road Centerlines,

Site/Structure Address Points, PSAP Boundaries, Emergency Service Boundaries and Provisioning Boundaries. Wood County continues to work at getting data ready for Next Generation 911 implementation in accordance with this standard.

- **Land Info Spending Category:** Address Points, Street Centerlines

### Business Drivers

- State government is preparing for Next Generation 911 implementation
- Improve existing data for Site Address Points and Street Centerlines that support dispatch and many other county functions.

### Objectives/Measure of Success

- County GIS data is NG911 compliant

### Project Timeframes

- Wood County will continue to work towards Next Generation 911 compliance throughout this planning period.

### Responsible Parties

- Land Records Coordinator
- Dispatch Manager
- Possible Consultant

### Estimated Budget Information

- \$100,000

## Project #4: Research and Mapping of Right-of-Ways

### Project Description/Goal

- There are many locations along Wood County's roadways where right-of-way information could be clarified with a survey.
- **Land Info Spending Category:** Digital Parcel Mapping, Other Parcel Work

### Business Drivers

- Many road records exist in the form of Transportation Project Plats, Right-of-Way Plats and town road records. While these are great reference points, there are still some areas that lack enough information to accurately map or locate where the right-of-way should be.
- Most questions in the Surveyor's Office are about Right-of-Way issues.
- Better Right-of-Way information for the parcel mapping.

### Objectives/Measure of Success

- Surveys performed on road Right-of-Ways.
- Integration of better survey information into the parcel mapping.

### Project Timeframes

- To Be Determined

### Responsible Parties

- Land Records Coordinator
- County Surveyor
- County Highway Department
- Contracted Surveyor

### Estimated Budget Information

- \$170,000

## Project #5: Recreation GIS Layers and Maps Development

### Project Description/Goal

- Create and improve GIS layers that support recreation mapping.
- **Land Info Spending Category:** Other (Recreation Mapping)

### Business Drivers

- There has been an increased interest in recreational activities, particularly with ATV trails and routes development.
- The County Parks system is improving and we would like to have good maps and applications that

can enhance visitors' experiences.

### Objectives/Measure of Success

- Creating of Web Applications focused on recreation.
- Good quality paper maps created for each County Park and Recreational Area, as well as an overall recreation map for the whole county.

### Project Timeframes

- This project will be worked on throughout this plan period.

### Responsible Parties

- Land Records Coordinator
- Parks and Forestry

### Estimated Budget Information

- Since we do not plan to contract any work for this project out, the project cost has been made a part of "Ongoing Costs Not Associated With a Specific Project".

## Project #6: Parcel Fabric, Maintenance and Accuracy Improvements

### Project Description/Goal

- Wood County migrated to the ArcGIS Pro Parcel Fabric in 2020. While parcel mapping has improved steadily since the initial implementation in 2005, there will have to be some pretty focused effort spent to get the most out of ESRI's parcel fabric. This may include remapping of whole areas to snap to our survey control, and accurately delineate all "Parcels" in the parcel fabric to include Tax Parcels, Subdivisions, Subdivision Lots, Subdivision Blocks etc.
- **Land Info Spending Category:** Digital Parcel Mapping

### Business Drivers

- Parcel data is one of the most important Foundational Elements and is used by many people.
- Surveyors, engineers, realtors, other professionals and citizens rely on accurate parcel boundaries.

### Objectives/Measure of Success

- Keep parcel mapping current
- Integrate Survey-Grade PLSS Coordinates into the parcel mapping.
- Accurately depict not only tax parcels but Subdivisions, Lots and Blocks as well.

### Project Timeframes

- Ongoing

### Responsible Parties

- Land Records Coordinator

### Estimated Budget Information

- Since we do not plan to contract any work for this project out, the project cost has been made a part of "Ongoing Costs Not Associated With a Specific Project".

## Project #7: Website, Data Hosting Services, Software and Hardware Maintenance

### Project Description/Goal

- Maintain and expand online mapping and data distribution capabilities
- **Land Info Spending Category:** Software, Hardware, Website Development/Hosting Services

### Business Drivers

- Public demand for online land records
- Technology advancements have made distributing maps and data easier
- Technology is constantly changing and updating – we must do the same

### Objectives/Measure of Success

- Online GIS applications and data are available to the public
- Hardware and software required is up to date and reliable

### Project Timeframes

- Ongoing

## Responsible Parties

- Land Records Coordinator
- Information Systems

## Estimated Budget Information

- \$ 15,000 annually

## Project #8: Maps and Applications to Support Data Collection

### Project Description/Goal

- The creating on maps and applications that allows county employees and other outside professionals such as town officials or emergency personnel to collect and edit GIS data.
- **Land Info Spending Category:** Administrative Activities and Management

### Business Drivers

- There are many willing individuals who regularly work in the field and visit assets that would be beneficial for the county (culverts, signs, driveways, POWTS, etc) who do not currently collect any GIS information.
- Collecting data out in the field and in the office would improve many workflows and allow for more GIS data creating and maintaining that does not have to directly involve the Land Records Coordinator.

### Objectives/Measure of Success

- County Employees and other professionals are given the tools they need to collect GIS data.

### Project Timeframes

- This project will be worked on throughout this plan period.

### Responsible Parties

- Land Records Coordinator
- Highway Department
- Conservation
- Health Department
- Planning and Zoning

### Estimated Budget Information

- Since we do not plan to contract any work for this project out, the project cost has been made a part of "Ongoing Costs Not Associated With a Specific Project".

## Ongoing Costs Not Associated With a Specific Project

### Funding for the Land Records Coordinator Position

Since it began in 1990, the Land Information Program has been funded entirely through retained fees, contribution-based grants, strategic initiative grants, and education and training grants. The biggest recurring investment on an annual basis is funding the cost of employing a Land Records Coordinator to work towards the goals of land records modernization in the county.

The cost for Salary, Taxes, Benefits as well as office costs for the Land Records Coordinator is approximately \$85,000 a year.

## Estimated Budget Information (All Projects)

### Estimated Budget Information

Project Title	Item	Unit Cost/Cost	Land Info Plan Citations Page # or section ref.	Project Total
<b>Project Plan to Maintain Searchable Format (Benchmarks 1 &amp; 2)</b>	Land Records Coord		Page 25	See "Ongoing Costs Not Associated With a Specific Project"
<b>Project Plan for PLSS (Benchmark 4)</b>	Land Records Coord	5% of 30k = \$1.5k	Page 25	
	County Surveyor	5% of 30k = \$1.5k	Page 25	
	Contracted Surveyor	90% of 30k = \$275	Page 25	<b>\$30,000</b>
<b>#1 LiDAR Flight and Additional Deliverables</b>	Contractor	100% of 140k = \$140k	Page 26	<b>\$140,000</b>
<b>#2 Historic Air Photo Scanning and Georeferencing</b>	Land Records Coord		Page 27	See "Ongoing Costs Not Associated With a Specific Project"
<b>#3 Next Generation 911</b>	Land Records Coord	80% of 100k = \$80k	Page 27	
	Dispatch Manager	10% of 100k = \$10k	Page 27	
	Contractor	10% of 100k = \$10k	Page 27	<b>\$100,000</b>
<b>#4 Research and Mapping of Right-of-Ways</b>	Land Records Coord	5% of 150k = \$7.5k	Page 28	
	County Surveyor	5% of 150k = \$7.5k	Page 28	
	Highway Department	10% of 150k = \$15k	Page 28	
	Contracted Surveyor	80% of 150k = \$120k	Page 28	<b>\$170,000</b>
<b>#5 Recreation GIS Layers and Maps Development</b>	Land Records Coord		Page 28	
	Parks & Forestry Dept		Page 28	See "Ongoing Costs Not Associated With a Specific Project"
<b>#6 Parcel Fabric, Maintenance and Accuracy Improvements</b>	Land Records Coord		Page 29	See "Ongoing Costs Not Associated With a Specific Project"
<b>#7 Website, Data Hosting Services, Software and Hardware Maintenance</b>	Land Records Coord	95% of 45k = \$42.75k	Page 29	
	Information Systems	5% of 45k = \$2.25k	Page 29	<b>\$45,000</b>
<b>#8 Maps and Applications to Support Data Collection</b>	Land Records Coord		Page 30	
	Highway Department		Page 30	
	Conservation		Page 30	
	Parks & Forestry Dept		Page 30	
	Health Department		Page 30	
	Planning & Zoning		Page 30	See "Ongoing Costs Not Associated With a Specific Project"
<b>Ongoing Costs Not Associated With a Specific Project</b>	Land Records Coord	100% of 255k = \$255k	Page 30	<b>\$255,000</b>
<b>GRAND TOTAL</b>				<b>74 0,000</b>

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

WOOD COUNTY LAND INFORMATION COUNCIL  
MINUTES

Date: Tuesday November 16, 2021 at 9:00 a.m.

Location: Via Webex Teleconference and in person room 114

Attendees: Ken Curry, Wood County Board District 11 Supervisor; Paul Bernard, Land Information Officer; Al Breu, Wood County Board District 6 Supervisor (via webex); Nancy Marti, Real Property Lister; Heather Gehrt, Treasurer (via webex); Victoria Wilson, Planning & Zoning; Kevin Boyer-Wood County Surveyor; Tiffany Ringer, Register of Deeds; Lori Heideman, Dispatch Manager

1. Chairperson Curry called the meeting to order at 9:00 a.m.
2. Introductions.
3. Chairperson Curry declared a quorum.
4. Public Comment. None
5. Approval of previous meeting minutes (9/29/2021).

Chairperson Curry asked for any additions or corrections to the previous meeting minutes. Hearing none, Al Breu made a motion to approve the minutes. Second by Kevin Boyer. Motion carried unanimously.

6. Round Table Discussion on Land Information
  - Brian Spranger had mentioned wanting to see assessment data on GIS in the previous meeting. Initially Paul thought we had the information available but after digging deeper found that to obtain the information Brian was referring to would be challenging. Although assessment information is public knowledge, not all assessors wish to share the information to be used on a countywide platform such as GIS.
  - Paul has been working on maps for each of the nineteen Supervisory Districts as well as ward maps for each of the thirty-four municipalities. These maps are all accessible through an interactive web map that will be available to the public. This should streamline the Census Review and Redistricting Process the next time it happens. The maps should be available by the end of the week.
  - Paul has been working with the Department of Transportation (DOT) to request the most recent, non-recorded DOT plat maps. There are several places these plats may be, but not a comprehensive place to find them, which causes a great deal of staff hours of research when a request is made for these plats. A staff person at the DOT was able to provide these plats to Paul. Wood County can now be the repository for these plats and have them available on GIS. This will be a big timesaver for many.
  - Tiffany Ringer shared that her office is very busy and counter traffic has been exceptionally busy. They are offering an online option for citizens to obtain vital records. Tiffany is working with their software company to get the ability to record Certified Survey Maps electronically. The State is working on doing countywide divorce records. One of ROD long-term employees announced her retirement and her last day will be January 3<sup>rd</sup>. The position is currently posted.



7. Approval and Adoption of 2022 – 2024 Land Information Plan

- Paul Bernard and Kevin Boyer provided an overview of the budget information pertaining to Project #4: Research and Mapping of Right-of-Ways. Brian Spranger had requested clarification on the budget number regarding this project at the last meeting. Kevin provided a conservative estimate of \$88,000 for one right-of-way monument plat project. With that estimate, Paul increased the budget amount for that budget item from \$150,000 to \$170,000 to provide for two of these projects to tentatively be completed in the three-year plan.

Chairperson Ken Curry made a motion to approve the 2022-2024 Land Information Plan. Al Breu seconded the motion. Motion carried unanimously.

8. Budget Update

- Paul has been in conversation with a company called “HERE” that provides location data for all sorts of GPS units, such as Garmin and TomTom. One of the many things we have been asked to do for the NextGen911 and GIS migrations is to have a Site Address Point Alias Table AKA Commonplace Name. For example rather than “200 Smith St” it would be “McDonald’s”. “HERE” would cost around \$800 a year for a subscription to use their data. There is no contract tied to the service. We are not certain if we are going to use this service but are considering it.
- Lori Heideman had made a CIP request for our NextGen 911 endeavors. At this time it sounds like the State is doing an RFP at the state level for these validation tools we were planning on spending the CIP money for. We can tag another NextGen project for the CIP money but Paul will need to have a conversation with the person in charge of our NextGen integrations to get a clear answer.

9. Agenda Items for Next Meeting

- Discussion took place regarding how many meetings should be held next year.

Paul made a motion to hold two meetings in a non-plan year. Kevin Boyer seconded the motion. Motion carried unanimously.

10. Adjourn

- Chairperson Ken Curry declared the meeting adjourned at 9:50 a.m.

Minutes taken by Victoria Wilson of Planning and Zoning and in draft form until next meeting.