

A light gray map of the state of Wisconsin is shown. In the southwestern corner, a small area representing Grant County is highlighted in a solid green color. The text "Grant County Land Information Plan 2025-2027" is overlaid on the left side of the map.

Grant County Land Information Plan 2025-2027

Grant County Land Information
111 South Jefferson Street
Lancaster, WI 53813
608-723-2666
<https://gcargis.co.grant.wi.gov/portal/home/>
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EXECUTIVE SUMMARY

About this Document. This document is a land information plan for Grant County prepared by the land information officer (LIO) and the Grant 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, Grant County was awarded \$100,064.00 in WLIP grants and retained a total of \$49,400.00 million 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 Grant 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 Grant 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. In the next three years, Grant County’s Land Information Office will continue working diligently to broaden our land information system and services with digitization of archived documents, new data collections, upgraded software and hardware. This will allow users of land information to conduct streamlined searches of land records, property taxes, land usage documentation and more.

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

Grant County Land Information Projects: 2025-2027	
Benchmarks 1 & 2	Maintain Searchable Format
Benchmark 4	PLSS
Project #1	Transition to new Permit Tracking Software
Project #2	Transition to new Land Records Management Software
Project #3	Clean-up/Verification of Address Point Layer
Project #4	GPS Attribute Collection
Project #5	Expansion of Enterprise GIS
Project #6	Development of GIS Standards Policy

The remainder of this document provides more details on Grant 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) with oversight by the Wisconsin Land Information Board (WLIB).

In 1990, the Grant County Board of Supervisors approved Resolution #7/90 thereby establishing the Grant County Land Information Office (LIO) in response to state legislation creating a program to modernize of local government land records and land information systems. Statutory changes in 2005 dissolved the WLIB and moved management of the WLIP to Wisconsin Department of Administration, Division of Intergovernmental Relations (DOA-DIR). In 2015, additional statutory changes placed the State Geographic Information Officer (GIO) under WLIP and established an advisory group called the Wisconsin Land Information Council (WLIC).

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)

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

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)

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

County Land Information System History and Context

With the approval of Resolution #7/90, Grant County pledged to modernize land records and public access thereto by granting authority to the Office of Land Information. Encompassing an area of 1,180 miles, Grant County is the 10th largest county by land area in the state according to the Wisconsin Department of Natural Resources (*Wi_DNR_Data. Wisconsin County Boundaries (24K). Feature Layer. Madison, WI: Wisconsin Department of Natural Resources, Bureau of Technology Services, July 5, 2017.*) and, combined with its wildly divergent areas of population density and development, has relied heavily on grants awarded through the WLIP to make progress in our modernization efforts.

In late 2016, the County Cartographer retired from their position held since 1989. This led to reclassifying the position as Geographic Information Systems (GIS) Specialist. The LIO has restructured many of the tools and resources used to distribute and make accessible land information as well as reconfigured inter-departmental workflows capitalizing on enterprise GIS capabilities and web application development. Legislative mandates originating in state or county governments may influence the actions of the LIO due to the inherently cross jurisdictional nature of the office.

To continue modernizing access and delivery of land records, the Register of Deeds transitioned from the GCS Software suite to Fidar Technologies Laredo, Tapestry and, Monarch in May of 2022.

Beginning in late 2023, the County Land Information System underwent some major changes. The County GIS Specialist migrated the standalone ArcGIS Server to an ArcGIS Enterprise, allowing the county to move away from soon-to-be legacy desktop software, web applications and create a Land Information website. Along with this migration, the county hired Pro West and Associates to aid in moving to the Parcel Fabric. Meanwhile, the Conservation, Sanitation and Zoning (CSZD) Department began transitioning their GCS Permit Tracking software to Catalis. This transition is expected to last through 2025 before it is fully implemented.

In 2025, the County Treasure will continue the expansion of the Land Information System by switching the overall Land Records Management System (LRMS) from GCS to another LRMS vendor. Upon completion of the current and future data transfers to new a new vendor, the County Land Information System will offer a new level of data integration and allow enhanced collaboration for all stakeholders in future land use projects.

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 Grant County Land Information Council, and others as listed below.

Grant County Land Information Council and Plan Workgroup				
Name	Title	Affiliation	Email	Phone
+ Andrea Noethe	Register of Deeds	Grant County Register of Deeds	anoethe@co.grant.wi.gov	608-723-2727
+ Carrie Eastlick	County Treasurer	Grant County Treasurer's Office	ceastlick@co.grant.wi.gov	608-723-2604
+ Tonya White	County Clerk	Grant County Clerk's Office	twhite@co.grant.wi.gov	608-723-2675
+ Tammy Hampton	Real Property Lister	Grant County Clerk's Office	thampton@co.grant.wi.gov	608-723-2666
+ Robert Keeney	County Board Chair, Land Information Officer	Grant County Board of Supervisors	rkeeney@co.grant.wi.gov	608-723-2711
+ Tiffany Ehlen	Geographic Information Systems Specialist. <i>Madame Deputy</i>	Grant County Clerk's Office	tehlen@co.grant.wi.gov	608-723-1666
+ Lori Droessler-Raupp	Realtor	Lori Droessler Real Estate, Inc.	lori@loridroessler.com	608-778-9805
+ Keith Lane	Conservation, Sanitation & Zoning (CSZD) Administrator	Grant County CSZD Department	klane@co.grant.wi.gov	608-723-6080
+ Jay Adams	County Surveyor	Grant County Surveyor	jay.adams@dot.wi.gov	608-485-2662
+ Chris Johl	Communications Supervisor	Grant County Sheriff's Office	cjohl@co.grant.wi.gov	608-723-7442
+ Steve Braun	Emergency Management Director	Grant County Emergency Management	sbraun@co.grant.wi.gov	608-723-7171
+ Jon Knautz	Highway Commissioner	Grant County Highway Department	jknautz@co.grant.wi.gov	608-723-2595
+ Shane Drinkwater	Information Technology Director	Grant County Information/Technology Department	sdrinkwater@co.grant.wi.gov	608-723-1668

+ Land Information Council Members designated by the plus symbol

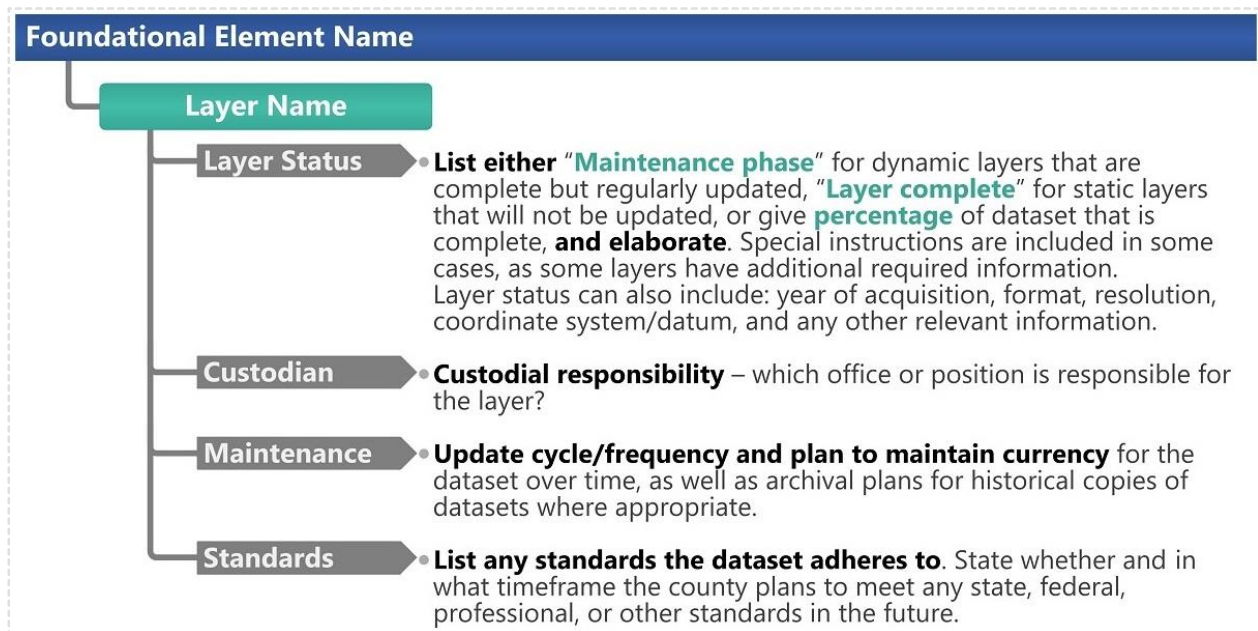
2 FOUNDATIONAL ELEMENTS

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	• ±4,300
Number of PLSS corners capable of being remonumented in your county that have been remonumented	• 334
Number of remonumented PLSS corners with survey grade coordinates (see below for definition) <ul style="list-style-type: none"> • 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 	• 334
Number of survey grade PLSS corner coordinates integrated into county digital parcel layer (see definition of PLSS integration on page 37)	• 34 Total. 9 – Remonumented and 25 – Tie Sheets (submitted with surveys)
Number of non-survey grade PLSS corner coordinates integrated into county digital parcel layer	• ±3,959
Tie sheets available online?	• Yes, https://landrecords.co.grant.wi.gov/publicinfo/Plats,%20Surveys,%20Tie%20Sheets/Tie_Sheets/
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	• 0
Approximate number of PLSS corners believed to be lost or obliterated	• Unknown at this time
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)?	• Grant County Legacy Naming Convention (Township/Range/Section/Corner ID)
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	• Indexed Corners: Lafayette-35; Iowa-40; Jo Daviess, IL-19
Number of PLSS corners remonumented along each county boundary	• Lafayette: 4 • Iowa: 0 • Jo Daviess, IL: 0
Number of remonumented PLSS corners along each county boundary with survey grade coordinates	• Lafayette: 4 • Iowa: 0 • Jo Daviess, IL: 0

Custodian

- County Surveyor
- GIS Specialist

Maintenance

- PLSS data will be updated in the GIS database as survey tie sheets and remonumentation tie sheets are received
- As this layer will be continuously updated and digitization with survey grade coordinates will be an on-going process, the information will not be archived.

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.
- 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

- Grant County does not have a Geodetic Control and/or Control Network Layer

Parcel Mapping

Parcel Geometries

Layer Status

- **Progress toward completion/maintenance phase:** Grant County is currently in the maintenance phase. In Grant County, 100% of the county's parcels are available in a commonly-used digital GIS format.
- **Projection and coordinate system:** Transverse Mercator, System NAD 1983 (2011) WISCRS Grant (US 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. At the time this plan was created, 98% of Grant County's parcel records have geometric representation. The remaining 2% of unmapped parcels are mostly exempt parcels, and recent parcel splits.
- **Online Parcel Viewer Software/App and Vendor name:** ESRI Experience Builder – hosted on Grant County's ArcGIS Enterprise Portal, implemented and maintained in-house.
- **Unique URL path for each parcel record:** Yes.
- URL: <https://landrecords.co.grant.wi.gov/GCSWebPortal/Search.aspx?parcelnumber={WEBPIN}>
 - Note: {WEBPIN} is the full parcel number without the dashes.
- If yes, include a list of information that can be accessed through the unique parcel URL.
 - Tax Year, Property Type, Municipality, Property Address, Billing Address, Abbreviated legal description, Tax Information, Assessments, and Permits.
- If yes, is the URL stable?
 - Yes, the URL for each parcel record does not regenerate.
- If yes, could the unique URL values be exported?
Information can be Saved as a PDF or printed from the Property Summary Report.

Custodian

- GIS Specialist

Maintenance

- **Update Frequency/Cycle:** Parcel polygons are updated on a daily/weekly basis. Grant County's parcel geometries reside in a Parcel Fabric hosted on the Enterprise Portal. At the end of each day, the GIS Specialist saves any edits in their version, reconciles to the default version, then posts the updates. There is a nightly script that copies the default version data to the publishing layers which are used for public viewing.

Standards

- **Data Dictionary:** Incomplete
- With the migration from a stand-alone server to an Enterprise and non-parcel fabric to parcel fabric, many of the tables and databases were rebuilt. The GIS Specialist intends to create a full data dictionary which aligns with the new tables within the metadata. The goal is to have this completed by the end of 2025.

Parcels Without Land Value

Layer Status

- **Number of parcels without a land value recorded to-date:** 0 as of date 11/8/2024
- **County geolocates/maps parcels for improvements only and without a land value by:** Point within the legal description. A separate BFI Parcel layer will be created when the first BFI deed is processed in the county.

Assessment/Tax Roll Data

Layer Status

- **Progress toward completion/maintenance phase:** NA
- **Tax Roll Software/App and Vendor name:** Property Assessment & Tax Billing Module – from vendor LandNav/GCS Software
- **Municipal Notes:** NA

Custodian

- Deputy County Clerk/Real Property Lister (RPL)
- Administrative Assistant I in County Clerk's Office
- County Treasurer

Maintenance

- **Maintenance of the Searchable Format standard:** To maintain the Searchable Format standard, the county will utilize WLIP Strategic Initiative funding for the purpose of preparing the annual parcel/tax roll data submission. Grant County currently runs an executable to extract data. Once the data is extracted, a model tool is ran in the ArcGIS Pro desktop software to reformat and append the new/updated data to existing Searchable Format tables. The final data table is then related to the parcel geometry via a primary key (WEBPIN).
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. *With that being said, a considerable amount of time is still required for processing parcel data submissions as the county does not have a single assessor. Each municipality contracts their own assessors, so the data provided is not always consistent between municipalities. The RPL and GIS Specialist comb through the data that is flagging errors and contacts the municipal assessor for clarification.*

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

Permits

Layer Status

- Septic Permit information is tied to parcel information via Parcel ID Number however the permit data are not integrated into the Grant County GIS. Permit documents are currently being scanned and indexed by Conservation, Sanitation, and Zoning Department (CSZD) staff. Once complete, integration into GIS will commence. New permits (septic, building, and other), pumping records, and other permits/records will be standardized and incorporated into the Grant County GIS.

Custodian

- Conservation, Sanitation and Zoning Department

Maintenance

- Ongoing, the records and documents are being incorporated into a cloud database by Catalis. Once the incorporation is complete, there are plans to tie the CSZD records to the Tax Parcel geometries. Full incorporation is expected in 2025.

Standards

- NA

ROD Real Estate Document Indexing and Imaging

Layer Status

- **Grantor/Grantee Index:** Grantor/Grantee index is in book form from 1837 to 1989; computerized in AVID software from that point going forward. However, all images from land records books have been scanned and incorporated into the Laredo/Tapestry; therefore, all documents can be accessed by Document Number or Vol/Page online. Additional attributes to

be indexed includes adding names, dates and other information identification information to the index.

- **Tract Index:** Tract books cover 1837 to April 2013, and scanned images of these books are available at <https://grant.colortract.com/>. The Computerized tract is available in Laredo/Tapestry and is updated daily; a working backward project is in force and is currently working on records from 1988.
- **Imaging:** Re-scanning of original plats, maps, and right-of-ways commenced in late 2018 and completed in 2019. Due to the improvement in scanning technology and the County's focus on improved access, functionality, and the importance of creating and maintaining an archive-quality ($\geq 300\text{dpi}$) digital library, Grant County determined the need to re-scan and index these documents to be a priority. Twice every week, new documents are scanned, indexed, and attributed.
- **ROD Software/App and Vendor Name:** Laredo/Tapestry from Fidlar Technologies

Custodian

- County Register of Deeds

Maintenance

- Ongoing

Standards

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

LiDAR and Other Elevation Data

LiDAR

Layer Status

- **Most recent acquisition year:** 2020 (*Received USGS Update in October 2022*)
- **Accuracy:** LAS – Non-vegetated Vertical Accuracy (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. Vegetated Vertical Accuracy (VVA) equates to 29.4 cm (0.96 ft) at the 95th percentile.
- **Post spacing:** Nominal Pulse Spacing (NPS) 0.7 meters & Aggregate Nominal Point Density (ANPD) of 2.0
- **Contractor's standard, etc.:** Vertical Accuracy Specifications per USGS QL2 level. See [Ayers Processing Report on Grant County LiDAR 2020](#) document.
- **Next planned acquisition year:** 2028
- **QL0/QL1/QL2 acquisition plans:** NA

Custodian

- GIS Specialist

Maintenance

- 8-year acquisition cycle

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

- 2ft Contours, Bare Earth Digital Terrain Model, Breaklines, Classified LAS, Raster Digital Elevation Model

Custodian

- GIS Specialist

Maintenance

- 8-year acquisition cycle

Standards

- AccuracyZ has been tested to meet 19.6 cm or better Non-Vegetated Vertical Accuracy at 95% confidence level using $RMSE(z) \times 1.9600$ as defined by the National Standards for Spatial Data Accuracy (NSSDA); assessed and reported using National Digital Elevation Program (NDEP)/ASPRS Guidelines.

Other Types of Elevation Data

Layer Status

- Grant County does not have any other types of elevation data.

Orthoimagery

Orthoimagery

Layer Status

- **Most recent acquisition year:** 2024
- **Resolution:** 6" Pixel Resolution
- **Contractor's standard:** The orthoimagery meets the standards of the Wisconsin Regional Orthoimagery Consortium (WROC). The WROC Standards for 6-inc pixel orthos are produced to meet ASPRS standards for 1" = 200' scale mapping. The 6-inch pexel orthoimagery was produced to meet or exceed a horizontal accuracy of 1.4 feet RMSE according to ASPRS Positional Accuracy Standards for Digital Geospatial Data.
- **Next planned acquisition year:** 2028

Custodian

- GIS Specialist

Maintenance

- 4-year acquisition cycle

Standards

- National Standards for Spatial Data Accuracy (NSSDA)
- American Society for Photogrammetry & Remote Sensing (ASPRS)
- Wisconsin Regional Orthoimagery Consortium (WROC)

Historic Orthoimagery

Layer Status

- Available years: 1995, 2005, 2010, 2013, 2015, 2020

Custodian

- GIS Specialist

Maintenance

- NA

Standards

- NA

Other Types of Imagery

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

Layer Status

- Grant County does not maintain other types of imagery.

Address Points and Street Centerlines

Address Point Data

Layer Status

- In-progress. Status Check: Current- 19,521 Other – 1,798; Pending – 3,060; Retired – 10; Temporary - 1

Custodian

- Sheriff's Office
- GIS Specialist
- GeoComm

Maintenance

- New address points are created as addresses are assigned. However, the overall data needs to be scrubbed and verified.

Standards

- Wisconsin GIS NG9-1-1 Data Standard (Site/Structure Address Point)
- Grant County Address and Road Name Ordinance

Building Footprints

Layer Status

- Grant County does not have a Building Footprints layer.

Other Types of Address Information

e.g., Address Ranges

Layer Status

- 100%

Custodian

- Sheriff's Office
- GEOCOMM

Maintenance

- As required.

Standards

- Grant County Address and Road Name Ordinance

Street Centerlines

Layer Status

- 100%

Custodian

- Sheriff's Office
- GeoComm

Maintenance

- As required.

Standards

- Wisconsin GIS NG9-1-1 Data Standard (Road Centerline)
- Grant County Address and Road Name Ordinance

Rights of Way

Layer Status

- Grant County does not have a R/W layer

Trails

e.g., Recreational Trails, Snowmobile Trails

Layer Status

- Grant County does not have a Trails layer

Land Use

Current Land Use

Layer Status

- Grant County does not currently have a Land Use layer. Creation of one is planned.

Future Land Use

Layer Status

- Grant County Comprehensive Plan

Custodian

- Conservation, Sanitation and Zoning Department
- Southwestern Wisconsin Regional Planning Commission

Maintenance

- Updated and/or reviewed every 10 years

Standards

- s. 66.1001, Wis. Stats. Comprehensive planning.
- Future land use mapping for a county may be a patchwork of maps from comprehensive plans adopted by municipalities and the county.

Zoning

County General Zoning

Layer Status

- The County does maintain a GIS representation of county general zoning boundaries.

Custodian

- Conservation, Sanitation and Zoning Department

Maintenance

- Updated as needed for municipalities that fall into county zoning jurisdictions

Standards

- S. 59.69 & 87.30, Wis. Stats. Zoning
- A new workflow is currently in development to ensure collaboration among departments to ensure when parcels are split, CSZD gets notified to review the zoning attributes of the affected parcel.

Shoreland Zoning

Layer Status

- The County does maintain a GIS representation of county shoreland zoning boundaries. This is a static layer the GIS specialist derives a 75' (setback) and 300' (shoreland zone) buffer from Wisconsin DNR's 24K Hydro layers.

Custodian

- Conservation, Sanitation and Zoning Department
- GIS Specialist

Maintenance

- Updated as requested by CSZD

Standards

- Grant County Shoreland Zoning Ordinance

Farmland Preservation Zoning

Layer Status

- The County does maintain a GIS representation of Farmland Preservation Zoning boundaries.
 - Farmland Preservation zoning as well as parcel eligibility is incorporated into the General Zoning Layer as an attribute. (*Current Zoning & FP Eligible Fields*)
- Year of certification: 2024
 - The FP layer is updated to reflect re-zones in/out of districts since certification

Custodian

- Conservation, Sanitation and Zoning Department
- Wisconsin Department of Agriculture, Trade and Consumer Protection (DATCP)
- Southwest Wisconsin Regional Planning Commission (SWWRPC)

Maintenance

- Updated as needed

Standards

- Grant County Comprehensive Zoning Ordinance
- DATCP Farmland Preservation Program

Floodplain Zoning

Layer Status

- Administered by county but not in GIS format. A layer is in development to meet new state regulations.
- The county's floodplain zoning GIS data is the same as/identical to the FEMA map.

Custodian

- Federal Emergency Management Agency
- Conservation, Sanitation and Zoning Department
- GIS Specialist

Maintenance

- The GIS specialist will update any changes made to FEMA provided REST services

Standards

- FEMA

Airport Protection

Layer Status

- Not administered by county.

Municipal Zoning Information Maintained by the County

e.g., Town, City and Village, Shoreland, Floodplain, Airport Protection, Extra-Territorial, Temporary Zoning for Annexed Territory, and/or Zoning Pursuant to a Cooperative Plan

Layer Status

- Not administered by county.

Administrative Boundaries

Civil Division Boundaries

e.g., Towns, City, Villages, etc.

Layer Status

- Complete/Maintenance On-Going

Custodian

- Deputy County Clerk/Real Property Lister (RPL)
- GIS Specialist

Maintenance

- Updated as needed (ie. new annexations)

Standards

- Department of Administration (DOA) Municipal Boundary Review

School Districts

Layer Status

- **Progress toward completion/maintenance phase:** 100%
- **Relation to parcels:** Based on tax parcel geometries, school district attributes are tied to parcels by the WEBPIN in the land records database
 - **Attributes linked to parcels:** School District & School District Number

Custodian

- Deputy County Clerk/Real Property Lister (RPL)
- GIS Specialist

Maintenance

- Updated upon receiving Reorganization Order from Wisconsin Department of Public Instruction

Standards

- Department of Public Instruction (DPI)

Election Boundaries

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

Layer Status

- Wards
- Supervisory Districts
- Other datasets available and maintained on [MyVote Wisconsin](#)

Custodian

- County Clerk
- Deputy County Clerk/Real Property Lister (RPL)
- GIS Specialist

Maintenance

- Updated as needed

Standards

- Wisconsin Election Commission (WEC)
- Legislative Technology Services Bureau (LTSB)

Utility Districts

e.g., Water, Sanitary, Electric, etc.

Layer Status

- Not maintained by county.
- Service territories, Broadband Planning Maps and Telephone exchange boundaries can be viewed on [Interactive Service Maps](#) created by the Wisconsin Public Service Commission.

Custodian

- Public Service Commission (PSC)

Emergency Service Boundary – Law/Fire/EMS

Layer Status

- **Law Enforcement (LE):** 100%
- **Fire District (FD):** 100%
- **Emergency Medical Services (EMS):** 100%
- **Emergency Service Zone (ESZ):** 100%
- **First Response:** 100%

Custodian

- Sheriff's Office

- GeoComm

Maintenance

- As required.

Standards

- Wisconsin GIS NG9-1-1 Data Standard (Emergency Service Boundary)

Public Safety Answering Points (PSAP) Boundary

Layer Status

- 100%
- **PSAP Boundary:** Coincident with the county boundary and City of Platteville boundary

Custodian

- Sheriff's Office
- GeoComm

Maintenance

- As required.

Standards

- Wisconsin GIS NG9-1-1 Data Standard (PSAP Boundary)

Provisioning Boundary

Layer Status

- 100%

Custodian

- Sheriff's Office
- GeoComm

Maintenance

- As required.

Standards

- Wisconsin GIS NG9-1-1 Data Standard (Provisioning Boundary)

Other Public Safety

e.g., Healthcare Facilities

Layer Status

- Grant County does not have other Public Safety layers.

Lake Districts

Layer Status

- Grant County does not have Lake District layers.

Native American/Tribal Lands

Layer Status

- Grant County does not have a Native American Lands. Burial sites, mounds, and other lands of historic or cultural importance are exempt from state and local tax and have been notated with exemption information in the tax database

Custodian

- Deputy County Clerk/Real Property Lister (RPL)

Other Administrative Districts

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

Layer Status

- Grant Count does not have Other Administrative Districts Layer.

Other Layers

Hydrography Maintained by County or Value-Added

e.g., Hydrography maintained separately from DNR or value-added, such as adjusted to orthos; Elevation-Derived Hydrography

Layer Status

- A layer is in development to incorporate Sanitary and Special Use Permits attributes with parcels identified within shoreland boundaries

Custodian

- Conservation, Sanitation and Zoning Department
- GIS Specialist

Maintenance

- In development

Standards

- Grant County Shoreland Ordinance, Grant County Floodplain Ordinance
- USGS Elevation-Derived Hydrography Specifications

Cell Phone Towers

Layer Status

- 99.9%

Custodian

- Sheriff's Office
- GeoComm

Maintenance

- As required.

Standards

- NA

Bridges and Culverts

Layer Status

- Grant County does not currently maintain a Bridge and Culverts layer. Creation of one is planned.

Other/Miscellaneous

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

Layer Status

- Platted Lands (Plat of Surveys, ALTA Surveys, and other non-recorded surveys) – On-going
- Platted Lots (Original Plats, Addition Plats, Subdivision Plats Certified Survey Maps (CSM), and other recorded documents) – On-going
- Non-Metallic Mining – In Development
- Manure Storage Facilities – In Development
- Solar/Wind Energy – In Development

Custodian

- Conservation, Sanitation and Zoning Department
- GIS Specialist

Maintenance

- As required. **As parcels are updated, the GIS Specialist reviews the area in the immediate vicinity to locate areas missing surveys.*

Standards

- NA

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



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

- Desktop workstations
- Windows Server 2022 with 32 GB RAM and 2TB SSD disk space
- Windows Server 2022/MS SQL 2019 with 64GB RAM and 1.5TB SSD disk space
- Barracuda Web Application Filter
- 3 redundant internet service providers

Software

- **County currently uses ArcGIS Pro:** Yes
- AVID Software
- GCS Suite: Property Assessment & Taxation, Treasurer's Collection, Treasurer's Settlement, General Cash Receipting
- Permit Tracking via Catalis (Estimated project completion 2025)

Website Development/Hosting

- GCS Web Portal
- Laredo/Tapestry from Fidlar Technologies
- ArcGIS Enterprise Portal
- County-Hosted Public Data FTP
- Online Tract Index from On Q Solutions

Metadata and Data Dictionary Practices

Metadata Creation

- **Metadata creation and maintenance process:** Metadata creation is an on-going process. With the upgrade to Enterprise multiple layers are being revamped along with their metadata.

Metadata Software

- **Metadata software:** While ArcGIS Catalog is available in the ArcGIS Desktop Advance Suite, we are looking for different approaches to metadata generation as this software is coming to end-of-life.
 - The software does generate metadata consistent with the FGDC Content Standard for Digital Geospatial Metadata, and ISO geographic metadata standard 19115.
- **Metadata fields manually populated:** All fields from locally created data. Metadata is transcribed from datasources outside of Grant County (e.g. WROC deliverables).

Metadata Policy

- **Metadata Policy:** Grant County currently does not have a metadata policy. The GIS Specialist plans to coordinate with the IT department to develop one.

Municipal Data Integration Process

- Currently, there is no municipal data integration. With the foundation of the GIS being rebuilt to accommodate for expansion of services, Grant County will look into ways of incorporating municipal data in the future.

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
https://gcarcgis.co.grant.wi.gov/port al/apps/experiencebuilder/experienc e/?id=0c3eb8665df945b595ff996c2fe1693f	http://grantcountylandrecords.com/p ublicinfo/	https://gcarcgis.co.grant.wi.gov/port al/apps/experiencebuilder/experienc e/?id=0c3eb8665df945b595ff996c2fe1693f	http://www.co.grant.wi.gov/localgov_ departments_details.asp?deptid=524 &locid=147
https://gcarcgis.co.grant.wi.gov/port al/home/	https://gcarcgis.co.grant.wi.gov/port al/home/	https://landrecords.co.grant.wi.gov/G CSWebPortal/Search.aspx	https://tapestry.fidlar.com/Tapestry2/

Web Services/REST End Points

URL

<https://gcarcgis.co.grant.wi.gov/server/rest/services>

County Webpage with Link to Statewide Parcel Map (www.sco.wisc.edu/parcels/data)

URL

<http://www.co.grant.wi.gov/section.asp?linkid=2206&locid=147>

Data Sharing

Data Availability to Public

Data Sharing Policy

- Grant County provides most digital data to the public via the open data download page. Certain datasets have sensitive information fields removed as a matter of public safety. Other datasets contain location information that could pose risk to public safety and, as a result, the spatial data is not available. For datasets not available on the open data download page, interested parties may contact the Land Information Office to request the data. Any Land Information Record that was acquired in whole or in part by Wisconsin Land Information Program grant dollars is provided to the requester free of charge with exceptions to any printing, postage, storage, or other related expense. Portions of datasets, processed datasets, or other special requests are subject to charges as outlined in the Grant County Land Information Fee Schedule which is available on the open data download page. All users of Grant County's web mapping applications must indicate their agreement with the disclaimer prior to the use of the application.

Open Records Compliance

- Grant County Land Information abides by open records requests in a timely manner to the fullest extent possible.

Data Sharing Restrictions and Government-to-Government Data Sharing

Data Sharing Restrictions

- Grant County limits third-party use of its data. Prior written consent of the Grant County Land Information Council is required for commercial use, reproduction, or distribution of GIS data. Restriction information is available online and is described in each data's service information page.

Government-to-Government Data Sharing

- Grant County participates in government-to-government data sharing. Data requests from the State or other government agencies are fulfilled as soon as possible. This non-commercial, non-private data sharing is free of charge.

Training and Education

- Grant County Land Information believes in the continued improvement of its programs is possible due to the continuing education of its members. Attendance at trainings, seminars, and conferences is encouraged and occurs regularly throughout the year. Members have attended trainings and events that include the Wisconsin Counties Association annual conference, the Wisconsin Society Land Surveyors (WSLS) annual conference and Wisconsin County Surveyor Association (WCSA) meetings, Wisconsin Real Property Lister's Association (WRPLA) annual and regional conferences, Wisconsin Register of Deeds Association (WRDA) annual and regional conferences, and the Governor's Conference on Emergency Management and Homeland Security, as well as the Wisconsin Emergency Management Association (WEMA) and Regional meetings. Attendance at special training and events such as those offered by the State Cartographer's Office is also encouraged.

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.

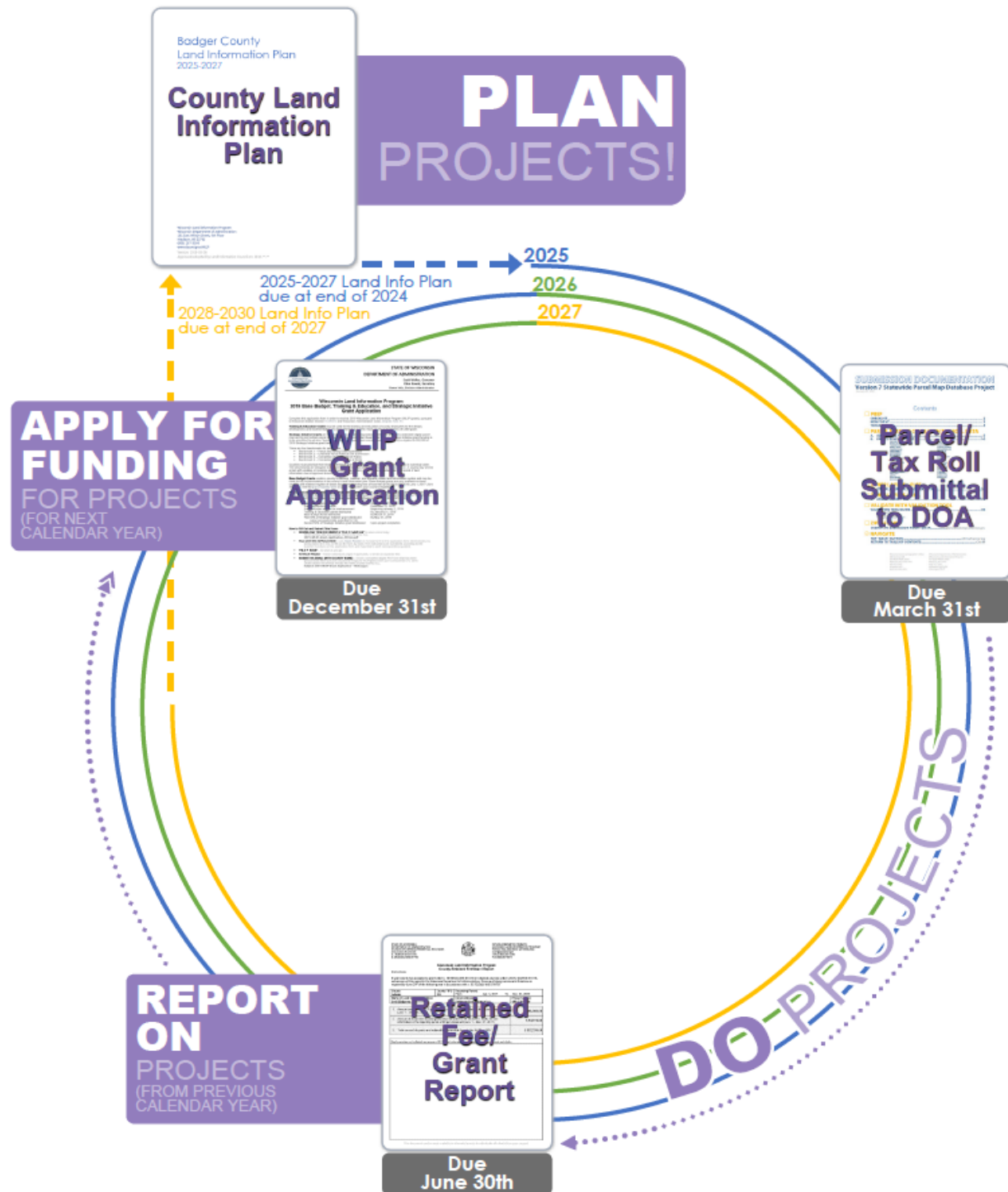


Figure 1. The WLIP Land Information Plan/Grant Project Cycle

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

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

Project Description

How Searchable Format Will Be Maintained

- Currently, Grant County utilizes a GCS export module that was purchased in 2017 to obtain data for the Searchable Format Schema. Once the data is exported, it is formatted via a model built in ArcGIS Pro to update current parcel attributes in the required schema format. The GIS Specialist will verify that this tool/capability will be made available in the upcoming transition to a new LRMS. New workflows will be developed during and after this transition to ensure Grant County is meeting Searchable Format requirements.

Business Drivers

- To improve data sharing throughout county and state offices as well as the general public. This format can be used in future web applications to allow for efficient research conducted by multiple entities.

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).
- When web applications utilizing this data are fully complete, we expect to have fewer data requests as it will be publically viewable on the Land Information Web Page.

Project Timeframes

- Summer/Fall 2025 – Transition to new Land Records Management System
- Winter 2025 – Develop data extraction/formatting workflows
- Winter 2025 – Incorporate new workflows for Maintenance of Searchable Format

Responsible Parties

- GIS Specialist
- Deputy County Clerk/Real Property Lister
- IT Department
- County Treasurer

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

- Understanding the need to prioritize remonumentation efforts in Grant County, a focused and measurable process is planned. With the ultimate goal of having 95 percent of the PLSS corners remonumented in 20 years, a yearly goal of approximately 200 corners will be monitored bi-annually. Current remonumentation efforts by the County Surveyor will be evaluated in the third quarter each year for evaluation of the 200 corner goal. If that goal does not appear likely to be met, other contracted surveying work will be considered through a Request For Proposal (RFP) process to achieve the yearly goal, understanding topography, budget and other factors could impact completion of this work. This method will ensure progress continues towards the goal of having 90 percent of the corners remonumented in 20 years. Priority will be focused on survey grade coordinates and quality research and field work using modern datums and posting of tie sheets online.

PLSS Integration

- With the Tax Parcel layer being integrated into a Parcel Fabric there are two workflows for integration:
 - Update PLSS corners as new surveys and tie sheets are submitted for indexing. As the GIS Specialist draws in newly received surveys, they review the Section that the survey is located in and input any new PLSS Corner coordinates that are available. Once the corner locations have been updated and any missing survey has been added, the parcel boundaries can be updated per each record in the LRMS. This is the more feasible option as a large portion of the time is dedicated to tax parcel splits, merges, updates and fixes.
 - The second option would be to create a separate branched version in the Parcel Fabric database dedicated to specifically updating PLSS corner locations. This could be done on a Township and Section basis. No parcel boundary updates would be completed in this version except along the Townships, Sections, Quarter Sections and Quarter Quarter Sections boundaries. This option is feasible in the late spring and early summer when parcel splits cannot occur until a municipalities Board of Review has adjourned.

Missing Corner Notes

- Missing corner notes will be added to the PLSS monument Records as they are encountered during the remonumentation process.

County Boundary Collaboration

- Grant County will collaborate with neighboring counties upon request.

Business Drivers

- Completion and integration of PLSS will improve the geospatial accuracy of the parcel layer and other county land information system layers.

Objectives/Measure of Success

- **The objective is to meet Benchmark 4 (Completion and Integration of PLSS) by: 2044**
- **Number of corners to be remonumented and/or rediscovered by 2027: ± 934**
- **Number to have new coordinates established by 2027: ± 600**
- **Accuracy class for these new coordinates by 2027: Survey Grade**
- **Number of new corner coordinates to be integrated into the parcel fabric by 2027: ± 500**
- **Number of new tie sheets to be posted online by 2027: ± 600**

Project Timeframes

- Fall/Winter 2024 – Determine requirements to finish PLSS Remonumentation in a timely manner. Develop a plan to ensure remonumentation is occurring expeditiously.
- 2025-2027 – Surveyor Remonumentation/ Digital integration as updates are provided
- 2027- 2029 – Digital Integration into the Parcel Fabric

Responsible Parties

- County Surveyor
- Land Information Officer
- GIS Specialist

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:** \$500-\$1,000
 - **Total cost of remaining remonumentation:** ±\$3,500,000
 - **Total cost of remaining integration of PLSS points into parcel layer:** ±\$61,000
 - **Cost of anything else remaining:** TBD
 - **Total remaining cost:** ±\$3,651,000

Project #1: Transition to new Permit Tracking Software

Project Description

- Transition to new permit tracking software and digitize approximate 800,000 paper documents to incorporate into records.
- **Land Info Spending Category:** Software

Business Drivers

- Increase efficiency of Sanitation and Zoning workflows with geocoded permits

Objectives/Measure of Success

- Permits 100% geocoded
Geographically indexed apps available on the county website

Project Timeframes

Timeline – Project #1 Title		
Milestone	Duration	Date
Project #2 start	–	Spring 2024
Scan/submit documents		2024
Index Permits		2024-2025
Build apps	3 months	2025
Project complete	–	Dec 31, 2025

Responsible Parties

- Conservation, Sanitation, Zoning Department
- IT Department
- Catalis
- GIS Specialist

Estimated Budget Information

- See table at the end of this chapter.

Project #2: Transition to new Land Records Management Software

Project Description

- Transition to new LRMS
- **Land Info Spending Category:** Software

Business Drivers

- LandNav Software is coming to End-of-Life and a transition is required to keep Grant County's Land Records Management System functioning.

Objectives/Measure of Success

- 100% records migrated with users trained in new software

Project Timeframes

Timeline – Project #1 Title		
Milestone	Duration	Date
Project #2 start	–	Summer 2025
Data migration		Fall 2025
User Training		Fall 2025
Build apps	3 months	Winter 2025
Project complete	–	Early 2026

Responsible Parties

- County Treasurer
- IT Department

Estimated Budget Information

- See table at the end of this chapter.

Project #3: Clean-up/Verification of Address Point Layer

Project Description

- Conduct a boots-on-ground verification of addresses in Grant County to clean up the current Address Point Layer.
- **Land Info Spending Category:** Address Points

Business Drivers

- Aside from 911 services, many other organizations look to our data to incorporate into their own (i.e. Diggers Hotline need accurate property addresses to be able to conduct proper locating services to their customers)
- County land information system contains some ambiguous addresses

Objectives/Measure of Success

- 100% of the statuses in the Address Point Layer are either Current or Retired, 0 Temporary or Other status
- Confidence in data accuracy

Project Timeframes

- Early 2025, develop strategy for address verification and obtain LIC approval
- 2025-2026, conduct boots on ground verification, engage in public input via web applications

Responsible Parties

- Sheriff's Office
- GIS Specialist
- Public participation

Estimated Budget Information

- See table at the end of this chapter.

Project #4: GPS Attribute Collection

Project Description

- Collecting location data for various assets throughout Grant County is imperative in moving important data to the digital realm where it will be easier to access, analyze and incorporate into future web applications.
- **Land Info Spending Category:** Other Parcel Work

Business Drivers

- Location data for countywide assets (e.g. fire hydrants, vaults/handholes, septic tanks, traffic signs, manholes, etc...) will increase efficiency in tracking overall infrastructure.
- Incorporation of location data to develop future web applications for Emergency Management
- Aids in describing to third party contractors' location to the asset, ensures the right asset is getting the right maintenance.

Objectives/Measure of Success

- Completion of asset collection per municipality
- Utilization of collected data to perform analysis and aid in location finding

Project Timeframes

- 2024: Collection testing, feature layer and field map creation, subscription acquisition

Responsible Parties

- IT Department
- GIS Specialist
- Collection Participants (e.g. IT Dept., CSZD Dept., Emergency Services, Highway Dept., etc...)

Estimated Budget Information

- See table at the end of this chapter.

Project #5: Expansion of Enterprise GIS

Project Description

- The rebuilt GIS has been developed to allow for expansion and inclusion of other departments and/or 3rd party entities. While the foundation is built, additional User Types, Roles and or Tools will be required to purchase from ESRI.
- **Land Info Spending Category:** Website Development/Hosting Services

Business Drivers

- Departments can use the GIS data to fit their needs and create products on demand without waiting for the GIS Specialist to be available
-

Objectives/Measure of Success

- Acquisition of additional user types/roles for ESRI
- Completion of tailored databases and web applications
- Users are trained and provide feedback on use

Project Timeframes

- 2025 – Poll County departments to determine any requirements
- 2026 – Develop apps, assign roles, provide training, begin testing on smaller datasets
- 2027 – Conduct user study/feedback session to determine what worked what didn't, begin implementation after incorporating feedback

Responsible Parties

- GIS Specialist
- IT Department

Estimated Budget Information

- See table at the end of this chapter.

Project #6: Develop GIS Standards Policy

Project Description

- The GIS Specialist would like to create repeatable and consistent policies for the handling of various GIS datasets. Setting a standard for all data collected and maintained in the GIS will create a strong foundation for future GIS applications.
- **Land Info Spending Category:** Administrative Activities and Management

Business Drivers

- Organization and standardization of data is key for efficient records retrieval, ad hoc analysis, map making, and web map development.
- Expansion of GIS capabilities

Objectives/Measure of Success

- Meta data completion
- Data dictionary for all layers

Project Timeframes

- Spring 2025 – Review current data to determine what information is available, what is missing and how to standardize
- Summer 2025-Winter 2026 – Implement GIS standards throughout all datasets maintained by Grant County
- On-going – Continue to utilize GIS Standards for new datasets as required

Responsible Parties

- GIS Specialist

Estimated Budget Information

- See table at the end of this chapter.

Completed Projects

- Register of Deeds Online Documents Platform (2022)
- Migration to the Parcel Fabric (2024)

Estimated Budget Information (All Projects) for Planning Period 2025-2027

Estimated Budget Information				
Project Title	Item	Unit Cost/Cost	Land Info Plan Citations	Project Total
Project Plan to Maintain Searchable Format (Benchmarks 1 & 2)	GIS Specialist	\$27.36/hour	Page # 26	\$ 125,000.00
	LRMS Software Maintenance	Approx \$30k/year		
	ESRI Software Maintenance	Approx \$10k/year		
Project Plan for PLSS (Benchmark 4)	County Surveyor	Approx \$90,000/year	Page # 27-28	\$ 442,500.00
	Remonumentation Supplies	Approx \$50,000/year		
	Integration into GIS PLSS layers	Approx \$7,500/year		
Project #1: Transition to new Permit Tracking Software	Document Scan/Index	Approx \$50,000	Page # 29	\$ 112,000.00
	Implentation/Transition	\$7,500 Implementation Fee		
	Software Maintenance	\$54,917 -3 year subscription fees		
Project #2: Transition to new Land Records Management Software	Data Integration & Software Transition	Approx \$30,000	Page # 29	\$ 130,000.00
	Software Maintenance	Approx 3-year subscription \$100,000		
Project #3: Clean-up/ Verification of Address Point Layer	Sheriff's Office: LTE Collection	\$17.51/hr	Page # 30	\$ 12,000.00
	Collection App Development	\$27.36/hr		
Project #4: GPS Attribute Collection	GIS Specialist: Collection web app/database development	\$27.36/hr	Page # 30	\$ 12,000.00
	DA2 Subscription	Cat 10 Annual Subscription \$2,275/yr		
Project #5: Expansion of Enterprise GIS	Hardware/Software/ Licensing Requirements	\$800/yr -Advanced Editor Lic.; \$400/yr-Mobile Worker	Page # 31	\$ 18,000.00
	GIS Specialist: App Development	\$27.36/hr		
	Training	Approx \$2,000/ class		
Project #6: Develop GIS Standards Policy	GIS Specialist	\$27.36/hr	Page #31	\$ 400.00
GRAND TOTAL				\$ 851,900.00
Note. These estimates are provided for planning purposes only. Budget is subject to change.				