GREEN LAKE COUNTY
571 County Road A, Green Lake, WI 54941

Original Post Date: 10/8/2021

The following documents are included in the packet for the Land Information Council on October 11, 2021:

1) Agenda

2) Minutes from 07/12/21

3) Radar Site Historical Marker/Glacial Landscape Marker

4) Land Information 3 Year Plan Update 2022-2023-2024

5) Grant Application

Green Lake County is an Equal Employment Opportunity Employer
571 County Road A, Green Lake, WI 54941-3188
Visit our web site: www.co.green-lake.wi.us

Land Information Council Meeting Notice

Date: October 11, 2021 Time: 1:00PM
Green Lake County Government Center,
County Board Room, 571 County Road A, Green Lake WI

AGENDA

Committee Members

Harley Reabe
Renee Thiem-Korth
Elizabeth Otto
Amanda Toney
Bob Schneider
Paul Gunderson
Mark Podoll
Gerald Stanuch
Don Lenz
Matt Kirkman

Elizabeth Otto, Secretary

Virtual attendance at meetings is optional. If technical difficulties arise, there may be instances when remote access may be compromised. If there is a quorum attending in person, the meeting will proceed as scheduled.

1. Call to Order
2. Pledge of Allegiance
3. Certification of Open Meeting Law
4. Minutes: 07/12/2021
5. Public Comments (3 Min. Limit)
6. Correspondence
7. Fire Number Ordinance Updates
8. County Fair Booth - Feedback
9. Radar Site Historical Marker/Glacial Landscape Marker – update
10. Land Information 3 Year Plan Update 2022-2023-2024 / PLSS Project Cost Increase Approval
11. 2022 Grant Projects and Application Approval
12. Future Council Activities
    - Future Meeting. Dates: 01/10/2022
    - Future Agenda items for action & discussion
13. Adjourn

Due to the COVID-19 pandemic, this meeting will be conducted and available through in person attendance (6 ft. social distancing and face masks required) or audio/visual communication. Remote access can be obtained through the following link:

Topic: Land Information Council
Time: Oct 11, 2021 01:00 PM Central Time (US and Canada)

Join Zoom Meeting
https://us06web.zoom.us/j/86523683092?pwd=VHdGMTZKNW55NlB4REVlSHdMRUk1Zz09

Meeting ID: 865 2368 3092
Passcode: 911497

Dial by your location
+1 929 436 2866 US (New York)
+1 301 715 8592 US (Washington DC)
+1 312 626 6799 US (Chicago)

Kindly arrange to be present, if unable to do so, please notify our office.   Sincerely,   Elizabeth Otto

Please note: Meeting area is accessible to the physically disabled. Anyone planning to attend who needs visual or audio assistance, should contact the County Clerk's Office, 294-4005, not later than 3 days before date of the meeting.

<div align="center">

GREEN LAKE COUNTY
LAND INFORMATION COUNCIL
July 12, 2021

</div>

The meeting of the Land Information Council was called to order by Chair Harley Reabe at 1:00 AM on Monday, July 12, 2021 in the County Board Room, Green Lake County Government Center. The meeting was held both in person and via Zoom. The requirements of the open meeting law were certified as being met. The Pledge of Allegiance was recited.

Present: Harley Reabe   Paul Gunderson   Don Lenz
                Jerry Stanuch   Renee Thiem – Korth   Liz Otto
                Matt Kirkman

Absent: Amanda Toney, Sheriff Mark Podoll, Bob Schneider

APPROVE MINUTES FROM 04/12/2021
Motion/second (Lenz/Gunderson) to approve the minutes from the April 12, 2021 meeting with no errors or corrections. Motion carried with no negative vote.

PUBLIC COMMENTS - none

CORRESPONDENCE - none

FIRE NUMBER ORDINANCE
Matt Kirkman reported that he has met with Treasurer Amanda Toney and Corporation Counsel Dawn Klockow regarding updates and amendments needed on the fire number ordinance. This will be put on the October agenda for further discussion.

COUNTY FAIR BOOTH
Jerry Stanuch stated that the Land Information department and the Treasurer will share a fair booth this year.

RADAR SITE HISTORICAL MARKER
Jerry Stanuch stated he priced the signage needed for the historical marker at the wayside by the intersection of 23/73. It would be a total of $1500. *Motion/second (Lenz/Thiem-Korth)* to order the signs and put them up ASAP depending on closure of the wayside for the season. Motion carried with no negative vote.

LOCATION OF LAND INFORMATION COUNCIL OFFICE
Motion/second (Gunderson/Thiem-Korth) to locate the Land Information office in the Planning & Zoning department as it is now. Motion carried with no negative vote. This item will be on the January agenda from now on.

2022 BUDGET DISCUSSION
Jerry Stanuch presented the budget figures totaling $151,000 for 2022 which is the same as previous years. Some fluctuation may occur due to grant amount changes.

2020 AERIAL IMAGE COST SHARE REIMBURSEMENT $7,510
Jerry Stanuch reported a reimbursement for aerial imaging totaling $7,510 from partners including the DOT, NRCS, DNR, WEM, LTSB, DATCP, Adams-Columbia Electric, WPS/WE Energies, and TES.

LAND INFORMATION 3 YEAR PLAN UPDATE 2022-2023-2024
Jerry Stanuch presented the 3 year plan update for 2022-2023-2024. Discussion held. Supervisor Lenz advised of a possible cost increase to the PLSS project. This will be put on the October agenda.

FUTURE COUNCIL ACTIVITIES
Future Meeting Dates: October 11, 2021 @ 1:00 PM

Future Agenda items for action & discussion: website metrics (full year), fire number ordinance updates, historical marker progress, PLSS corners pricing
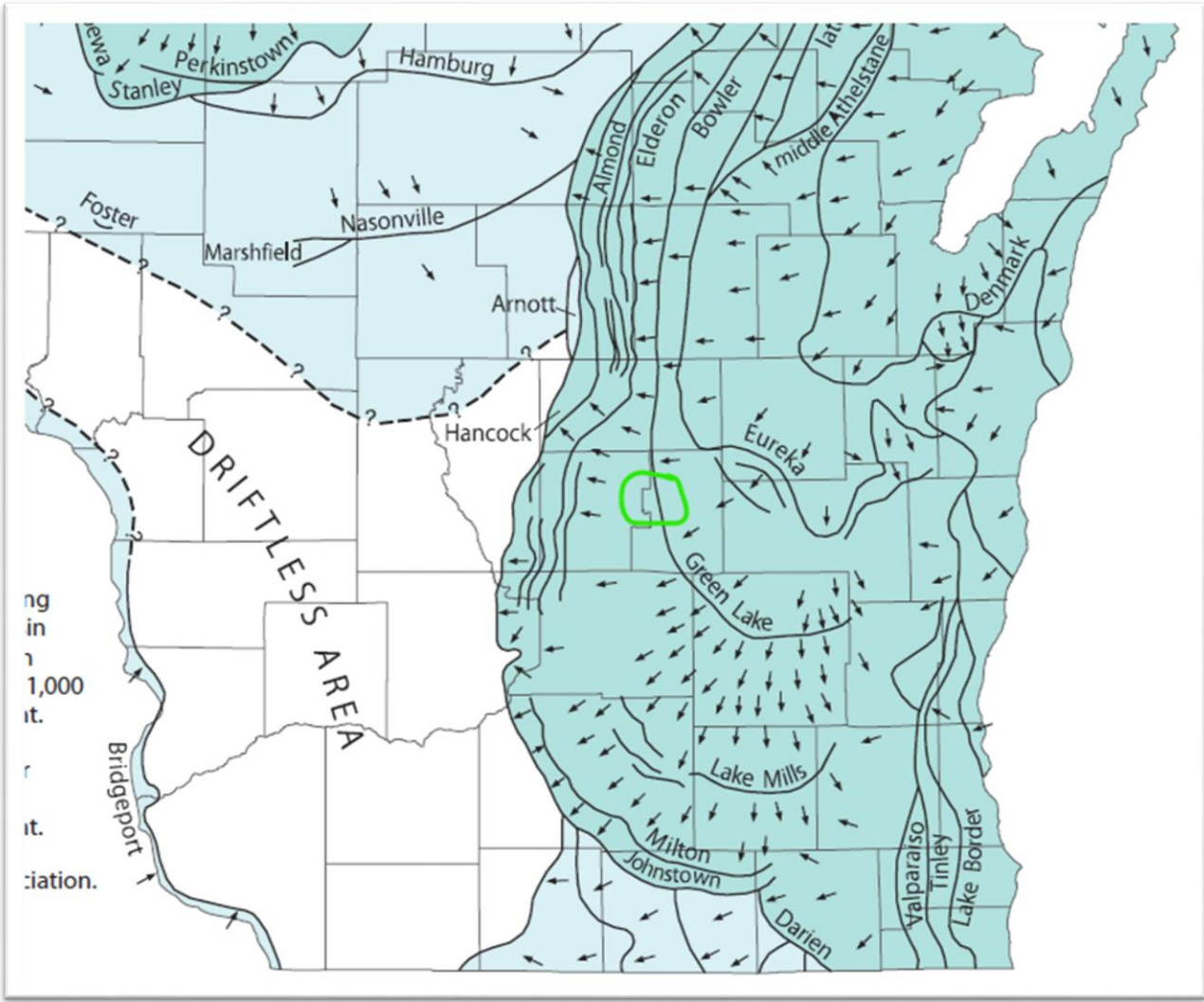
<u>**ADJOURNMENT**</u>
Chairman Reabe adjourned the meeting at 1:38 PM.

Submitted by:

Liz Otto
County Clerk

"Army Takes over Radar."

Green Lake County
Land Information Plan
2022-2023-2024

CONTENTS

EXECUTIVE SUMMARY

About this Document. This document is a Land Information Plan for Green Lake County prepared by the Land Information Officer (LIO) and the Green Lake 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, Green Lake County was awarded $111,248 in WLIP grants and retained a total of $41,648 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 Green Lake 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 Green Lake 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, Green Lake County's Land Information Office strives to be recognized for its exceptional web mapping site, gains in governmental efficiencies by broadening the utilization of GIS, improvements in parcel mapping accuracy, and responsiveness to meeting the land records needs of residents and businesses.

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

Green Lake County Land Information Projects: 2022-2023-2024	
Project	**Project Plan for PLSS (Benchmark 4)**
Project #1	**Oblique Imagery Update**
Project #2	**Import Surveys into Imaging**
Project #3	**Move GIS to the Cloud**
Project #4	**Scan Zoning Records**
Project #5	**Scan Old Parcel Books and Tax Rolls**
Project #6	**Land Records Hosting**
Project #7	**NG911 Updates**
Project #8	**Education and Public Outreach**
Project #9	**Multi-function large format printer/scanner**
Project #10	**GPS Hardware**

The remainder of this document provides more details on Green Lake 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 Green Lake County is meeting these benchmarks appears in the Foundational Elements section of this plan document.

County Land Information System History and Context

The Land Information Office (Register of Deeds) and Land Information Committee were established in 1990 by Resolution 30-1990. The Land Use Planning & Zoning Dept. became the Land Information Office by Res. 17-2005 to coincide with the Land Information Officer. The Land Information "Committee" was replaced by the Land Information "Council" by Res. 28-2010.

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 2022-2023-2024 plan, completed at the end of 2021, is the third post-Act 20 required update.

Plan dates:
1992-1993-1994-1995-1996-1997	Res. 21-1992
1998-1999-2000-2001-2002-2003-2004	Res. 06-1999
2005-2006-2007-2008-2009-2010	Res. 16-2006
2011-2012-2013-2014-2015	
2016-2017-2018	
2019-2020-2021	
2022-2023-2024	

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 and the Green Lake County Land Information Council as listed below.

Green Lake County Land Information Council

Name	Title	Email	Phone
Harley Reabe, Chair	County Board Chair	hreabe@co.green-lake.wi.us	920-294-4031
Renee Thiem-Korth, Vice-Chair	Register of Deeds	rthiemkorth@co.green-lake.wi.us	920-294-4024
Liz Otto, Secretary	County Clerk	lotto@co.green-lake.wi.us	920-294-4010
Paul Gunderson	County Conservationist	pgunderson@co.green-lake.wi.us	920-294-4055
Matt Kirkman	Land Use Planning & Zoning Director	mkirkman@co.green-lake.wi.us	920-294-4175
Don Lenz	County Surveyor	dlenz@co.green-lake.wi.us	920-294-4026
Mark Podoll	Sheriff	mpodoll@co.green-lake.wi.us	920-294-4134
Bob Schneider	Realtor		
Gerald Stanuch	GIS Specialist Land Information Officer	gstanuch@co.green-lake.wi.us	920-294-4174
Amanda Toney	Treasurer/Real Property Lister	atoney@co.green-lake.wi.us	920-294-4019

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 (section, ¼, meander) **set in original government survey** that can be remonumented in your county	1857
Number of PLSS corners capable of being remonumented in your county that **have been remonumented**	1598
Number of remonumented PLSS corners with survey grade coordinates (see below for definition) • **SURVEY GRADE** – coordinates collected under the direction of a Professional Land Surveyor, in a coordinate system allowed by 236.18(2), and obtained by means, methods and equipment capable of repeatable 2 centimeter or better precision • **SUB-METER** – point precision of 1 meter or better • **APPROXIMATE** – point precision within 5 meters or coordinates derived from public records or other relevant information	1598
Number of survey grade PLSS corners integrated into county digital parcel layer	1598
Number of non-survey grade PLSS corners integrated into county digital parcel layer	259
Tie sheets available online?	Yes (https://maps.sco.wisc.edu/surveycontrolfinder/)
Percentage of remonumented PLSS corners that have **tie sheets available online** (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) **and a corresponding URL path/hyperlink value** 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	259
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)?	Sequential page number of tie sheet as filed (0001-1858)
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	191
Number of PLSS corners remonumented along each county boundary	186
Number of remonumented PLSS corners along each county boundary with survey grade coordinates	186
In what ways does your county collaborate with or plan to collaborate with neighboring counties for PLSS updates on shared county borders?	Case-by-case basis between County Surveyors and Highway Depts.

Custodian

- County Surveyor

Maintenance

- Field check any corners with a last visited date over 20 years

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
  - **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
- NA

Parcel Mapping
Parcel Geometries
Layer Status
- **Progress toward completion/maintenance phase:** In Green Lake County, 100% of the county's parcels are available in a commonly-used digital GIS format.
- **Projection and coordinate system:** WISCRS (Wisconsin Coordinate Reference System)
- **Integration of tax data with parcel polygons:** The county does have a parcel polygon model that directly integrates tax/assessment data as parcel attributes.
- **Online Parcel Viewer Software/App and Vendor name:** ESRI Web AppBuilder (In-house)
- **Unique URL path for each parcel record:** Yes
  https://gis.co.green-lake.wi.us/gisweb/GIS_Viewer/index.html?find=999999999999
  https://ascent.co.green-lake.wi.us/LandRecords/PropertyListing/RealEstateTaxParcel/DetailFromParcelNumber?parcelNumber=999999999999

Custodian
- County GIS Specialist

Maintenance
- **Update Frequency/Cycle**: Parcel polygons are updated throughout the year to coincide with property listing

Standards
- **Data Dictionary**: The county Data Dictionary is in the form of a detailed Data Model graphic poster created in Microsoft Visio and exported to PDF

Assessment/Tax Roll Data
Layer Status
- **Progress toward completion/maintenance phase:** NA
- **Tax Roll Software/App and Vendor name:** Ascent Land Records Suite by Transcendent Technologies
- **Municipal Notes:** NA

Custodian
- County Treasurer/RPL (Real Property Lister)

Maintenance
- **Maintenance of the Searchable Format standard:** To maintain the Searchable Format standard, the county will rely on a database view maintained by our tax software vendor.

- **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

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

ROD Real Estate Document Indexing and Imaging
Layer Status
- **Grantor/Grantee Index:** complete back to 1982
- **Tract Index:**
  - complete back to 1982, earlier hardcopy index is online as a digital document
  - tract indexing is PLSS-based and not parcel PIN-based
  - the county's tract indexing encompasses deed, land contract, mortgage, certified survey map, plat, etc. documents
- **Imaging:**
  - complete back to 1935
  - indexed only by document#/volume-page between 1982 and 1935
- **ROD Software/App and Vendor Name:** Laredo/Tapestry by Fidlar

Custodian
- County Register of Deeds

Maintenance
- 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:** 2018
- **Accuracy:** vertical 19.6 cm at 95% confidence level
- **Post spacing:** 0.7 meters (density 2 points per square meter)
- **Contractor's standard, etc.:** supports 1-ft contour interval
- **Next planned acquisition year:** 2026 (8-year period)
- **QL1/QL2 acquisition plans:** 2018 is 3DEP QL2 (USGS 3D Elevation Program Quality Level 2)

Custodian
- GIS Specialist

Maintenance
- 3DEP program 8-year period. The 5 year ortho projects are produced using the LiDAR data. Changes in elevation over time, such as construction, highway projects, grading, and mining may affect the accuracy of the ortho.

Standards
- 3DEP program

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
- 2 ft DEM

Custodian
- GIS Specialist

Maintenance
- See LiDAR

Standards
- See LiDAR

Other Types of Elevation Data
Layer Status
- In-progress

Custodian
- GIS Specialist

Maintenance
- Interim area of interest updates between the countywide 8 year LiDAR updates will be done via drone camera imagery processed into elevation models
- Affordable, site specific, high resolution, temporal data acquisition

Standards
- FAA (Federal Aviation Administration) Part 107 Small Unmanned Aircraft Rule
- Lexipol Policy-613 UAS (Unmanned Aerial Systems)

Orthoimagery
Orthoimagery
Layer Status
- **Most recent acquisition year:** 2020
- **Resolution:** 6"
- **Contractor's standard:** TIF
- **Next planned acquisition year:** 2025

Custodian
- GIS Specialist

Maintenance
- Update every 5 years

Standards
- Contractor

Historic Orthoimagery
Layer Status
- 1992, 2000, 2005, 2011, 2015

Custodian
- GIS Specialist

Maintenance
- Archive

Standards
- Contractor

Other Types of Imagery
e.g., Oblique Imagery, Satellite Imagery, Infra-red, etc.
Layer Status
- In-progress

Custodian
- GIS Specialist

Maintenance
- Interim area of interest updates between the countywide 5 year ortho updates will be done via street level imagery with 360 camera hardware, and ortho imagery with drone camera hardware
- Affordable, site specific, high resolution, temporal data acquisition

Standards
- FAA (Federal Aviation Administration) Part 107 Small Unmanned Aircraft Rule
- Lexipol Policy-613 UAS (Unmanned Aerial Systems)

Address Points and Street Centerlines

Address Point Data
Layer Status
- Complete

Custodian
- GIS Specialist

Maintenance
- Ongoing

Standards
- Wisconsin GIS NG9-1-1 Data Standard (Site/Structure Address Point) 2020
- WLIA Address Point Data Standard 2020
- Code of Green Lake County Chapter 217 Road Names and Building Numbers

Building Footprints
Layer Status
- NA

Other Types of Address Information
e.g., Address Ranges
Layer Status
- NA

Street Centerlines
Layer Status
- Complete

Custodian
- GIS Specialist

Maintenance
- Ongoing

Standards
- Wisconsin GIS NG9-1-1 Data Standard (Road Centerline) 2020

- WLIA Street Centerline Data Standard 2020
- Code of Green Lake County Chapter 217 Road Names and Building Numbers

Rights of Way

Layer Status
- In-progress
- **How maintained:** Attribute of parcel lines

Custodian
- GIS Specialist

Maintenance
- Ongoing

Standards
- DOT

Trails

e.g., Recreational Trails, Snowmobile Trails

Layer Status
- Complete

Custodian
- GIS Specialist

Maintenance
- Ongoing

Standards
- DNR

Land Use

Current Land Use

Layer Status
- Complete

Custodian
- GIS Specialist

Maintenance
- In sync with Comp plan

Standards
- Code of Green Lake County Part III Land Use Legislation

Future Land Use

Layer Status
- Complete

Custodian
- GIS Specialist

Maintenance
- In sync with Comp plan

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

Zoning

County General Zoning

Layer Status
- The County <u>does</u> maintain a GIS representation of county general zoning boundaries.

Custodian
- GIS Specialist

Maintenance
- Ongoing

Standards
- Code of Green Lake County Part III Land Use Legislation

Shoreland Zoning

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

Custodian
- GIS Specialist

Maintenance
- Ongoing

Standards
- Code of Green Lake County Part III Land Use Legislation

Farmland Preservation Zoning

Layer Status
- The County does maintain a GIS representation of county farmland preservation zoning boundaries.
- Year of certification: Oct. 11, 2017 (updated to reflect re-zones since certification)

Custodian
- GIS Specialist

Maintenance
- Updated to reflect re-zones since certification

Standards
- Code of Green Lake County Part III Land Use Legislation

Floodplain Zoning

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

Custodian
- GIS Specialist

Maintenance
- Ongoing

Standards
- Code of Green Lake County Part III Land Use Legislation

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
- Extra-Territorial boundary lines

Custodian
- GIS Specialist

Maintenance
- On going

Standards
- Municipal

Administrative Boundaries

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

Layer Status
- Complete

Custodian
- GIS Specialist

Maintenance
- Ongoing

Standards
- Survey Grade PLSS

School Districts
Layer Status
- Complete
- Parcels are dissolved based on the tax roll school district attribute. They are not based on any legal written description of the school district boundaries, nor is any such description known to exist. It is unknown how the school district attribute was originally assigned on the tax roll.
- School district name is the only attribute

Custodian
- GIS Specialist

Maintenance
- School district boundaries have never changed since modern assessment records

Standards
- Accuracy dependent on parcel mapping

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

Layer Status
- Complete

Custodian
- GIS Specialist

Maintenance
- Updated with Census

Standards
- Accuracy dependent on parcel mapping

Utility Districts
e.g., Water, Sanitary, Electric, etc.
Layer Status
- Complete

Custodian
- GIS Specialist

Maintenance
- Ongoing

Standards
- Transmission networks only - distribution networks maintained by utilities

Emergency Service Boundary – Law/Fire/EMS
Layer Status
- **Law Enforcement:** Complete
- **Fire:** Complete
- **EMS:** Complete

Custodian
- GIS Specialist

Maintenance
- Ongoing

Standards
- Wisconsin GIS NG9-1-1 Data Standard (Emergency Service Boundary)
- Based on outside service agreements

Public Safety Answering Points (PSAP) Boundary
Layer Status
- Complete
- **PSAP Boundary:** PSAP boundary is the same as/coincident with the county boundary

Custodian
- GIS Specialist

Maintenance
- Ongoing

Standards
- Wisconsin GIS NG9-1-1 Data Standard (PSAP Boundary)
- Based on outside service agreements

Provisioning Boundary
Layer Status
- Complete

Custodian
- GIS Specialist

Maintenance

- Ongoing

Standards

- Wisconsin GIS NG9-1-1 Data Standard (Provisioning Boundary)
- Based on outside service agreements

Other Public Safety

e.g., Healthcare Facilities

Layer Status

- NA

Lake Districts

Layer Status

- Complete

Custodian

- GIS Specialist

Maintenance

- Changes are recorded with the Register of Deeds

Standards

- Based on recorded legal descriptions

Native American Lands

Layer Status

- NA

Other Administrative Districts

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

Layer Status

- Complete

Custodian

- GIS Specialist

Maintenance

- Ongoing

Standards

- Accuracy dependent on parcel mapping

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

- Complete

Custodian

- GIS Specialist

Maintenance

- Ongoing

Standards
- Based on LiDAR hydro breaklines

Cell Phone Towers

Layer Status
- Complete

Custodian
- GIS Specialist

Maintenance
- Ongoing

Standards
- Based on FCC ASR (Antenna Structure Registration)

Bridges and Culverts

Layer Status
- Complete

Custodian
- GIS Specialist

Maintenance
- Ongoing

Standards
- DOT bridges plus local data

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
County Parcel Data Workflow Diagram

Zoning

- Land division
- Survey Map review
- Transcendent Software

Register of Deeds

- Records real estate docs including Survey Maps
- Fidlar software

**Treasurer /
Real Property Lister**

- Creates new parcels
- Ownership changes
- Address Administrator
- Transcendent Software

Sheriff

- Address Ordinance

**GIS Specialist /
Land Information Officer**

- Maintains parcel geometries
- Assigns rural address numbers
- ESRI Software

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

- Two cloud servers – GIS, Register of Deeds
- One local server – Treasurer
- Large format printer
- AR Sandbox (computer and monitor) for public outreach and education
- Mobile mapping devices, cameras, and GPS
- **County currently uses ArcGIS Pro:** Yes, county has an ArcGIS Pro license
- **County plans to upgrade to ArcGIS Pro:** No, county uses ArcMap in production

Software

- ESRI ArcGIS

Website Development/Hosting

- In-house GIS mapping website
- Contracted Register of Deeds' document access – Tapestry & Laredo
- Contracted Treasurer's web portal – Transcendent Ascent Land Records Suite
- Contracted Zoning web portal – Transcendent Ascent Permit Management Suite

Metadata and Data Dictionary Practices

Metadata Creation

- **Metadata creation and maintenance process:** The county Data Dictionary is in the form of a detailed Data Model graphic poster created and maintained in Microsoft Visio software

Metadata Software

- **Metadata software:** ESRI ArcGIS
  - 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:** NA

Metadata Policy

- **Metadata Policy:** FGDC Standard

Municipal Data Integration Process

- The county GIS maintains parcel, address point, street centerline, and other base mapping for the municipalities. This mapping is generally distributed to the municipalities, rather than the county obtaining data from the municipalities

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://gis.co.green-lake.wi.us/gisweb/GIS_Viewer/	https://gis.co.green-lake.wi.us/gisweb/doc/download/OpenData/	https://ascent.co.green-lake.wi.us/LandRecords/	https://tapestry.fidlar.com/Tapestry2/

Single Landing Page/Portal for All Land Records Data
URL
https://gis.co.green-lake.wi.us/gisweb/gallery/

Web Services/REST End Points
URL
https://gis.co.green-lake.wi.us/arcgis/rest/services

Data Sharing

Data Availability to Public

Data Sharing Policy
- Green Lake County will provide a no-fee means of accessing land information through the websites listed above
- Public terminals for land information access are available in the Government Center
- Public internet access is also available at most public libraries
- Data in its original format is available on media with a fee to the requester for either the actual cost to reproduce the data, or a statutory set fee.

Open Records Compliance
- Green Lake County complies with Wisconsin's Open Records Law

Data Sharing Restrictions and Government-to-Government Data Sharing

Data Sharing Restrictions
- Green Lake County imposes no restrictions on the use or distribution of public land information

Government-to-Government Data Sharing
- Parcel, address, road, five year ortho updates, and LiDAR are available to municipalities within the county upon request

Training and Education
- All county web applications display county contact phone numbers and emails for individual help using county public access web sites or interpreting the data on the websites

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.

Project Plan for PLSS (Benchmark 4)

Project Title: Project Plan for PLSS (Benchmark 4)

Project Description/Goal

Planned Approach

- Contract annually as budget allows for PLSS remonumentation with survey grade GPS coordinates for all corners in the county - integrating corners into the parcel fabric will be done in-house by the GIS Specialist

Current Status

- **Tally of the total number of corners:** See PLSS Layer Status table in Chapter 2
- **Remonumentation status:** See PLSS Layer Status table in Chapter 2
- **Coordinate status (accuracy class) if known:** See PLSS Layer Status table in Chapter 2

Goals

- **Number of corners to be remonumented and/or rediscovered:**
  - 2020/52, 2021/71, 2022/68, 2023/68
- **Number to have new coordinates established:** all
- **Accuracy class for these new coordinates:** Survey Grade
- **Way in which these points will be integrated into the parcel fabric:** In-house

Missing Corner Notes

- **Documentation for any missing corner data:** Current plan is to remonument all corners

County Boundary Collaboration

- The County Surveyor and Highway Commissioner will work with neighboring counties to maintain new or existing PLSS including those corners affected by Highway projects

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.
- The public expects accurate boundary lines to display on the county map website
- Not only land owners, but realtors, assessors, appraisers, title companies, banks, and other public and private agencies make use of accurate parcel boundaries
- It would be ideal to have all areas of the county mapped to the same level of accuracy

Objectives/Measure of Success

- The objective is to meet Benchmark 4 (Completion and Integration of PLSS) by 2025

Project Timeframes

Timeline – Project Plan for PLSS		
Milestone	**Duration**	**Date**
89% of PLSS remonumented	2 year	Jan. 1, 2020 - Dec. 31, 2021
93% of PLSS remonumented	2 year	Jan. 1, 2021 - Dec. 31, 2022
96% of PLSS remonumented	2 year	Jan. 1, 2022 - Dec. 31, 2023
100% of PLSS remonumented	2 year	Jan. 1, 2023 - Dec. 31, 2024

Responsible Parties

- Contractor & GIS Specialist

Estimated Budget Information

- See table at the end of this chapter.

Project #1: Oblique Imagery Update

Project Description/Goal

- Collect new oblique imagery every 5 years
- **Land Info Spending Category:** Orthoimagery

Business Drivers

- High resolution aerial imagery is used in planning, conservation, real estate activities, recreation, emergency management, and navigation
- Older images are archived as a historical record
- Regular data collection needed for temporal analysis such as change detection of land and land features
- Used to verify changes in LiDAR
- Obliques vital to Public Safety & Emergency Management, Land Use Planning & Zoning, and Land Conservation departments

Objectives/Measure of Success

- Project completion marked by Obliques being available for viewing online locally and by the public

Project Timeframes

Timeline – Project #1: Oblique Imagery Update		
Milestone	**Duration**	**Date**
Collect spring obliques and process through the summer QC and finalize by the fall	9 months	April - Dec, 2020

Responsible Parties

- Contractor

Estimated Budget Information

- See table at the end of this chapter.

Project #2: Import Surveys into Imaging

Project Description/Goal

- Migrate survey images into Register of Deeds imaging system
- **Land Info Spending Category:** Other Parcel Work

Business Drivers

- Outdated "Survey Records Search" application requires upgrading
- Leverage existing and modern Register of Deeds imaging system

Objectives/Measure of Success

- Safe long term storage of survey documents
- Convenient access to documents

Project Timeframes

Timeline – Project #2: Import Surveys into Imaging		
Milestone	**Duration**	**Date**
Study current storage method fall of 2021 for possible 2022 project	6 months	Oct 2021 – Mar 2022

Responsible Parties
- Imaging Vendor

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

Project #3: Move GIS to the Cloud

Project Description/Goal
- Move GIS from local server to cloud hosting
- **Land Info Spending Category:** Software

Business Drivers
- Eliminate need for local server maintenance and upgrades
- Scalability of mapping website public access
- Remote access supports the departments "Continuation of Operations Plan"

Objectives/Measure of Success
- Decommissioning of local server
- New documented workflow for cloud based GIS SOP's (Standard Operating Procedures)
- Strong ESRI ArcGIS presence

Project Timeframes

Timeline – Project #3: Nutrient Management Planning Software		
Milestone	**Duration**	**Date**
Spring install of software moving into production status by fall	6 months	April - Sept, 2022

Responsible Parties
- GIS Specialist

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

Project #4: Scan Zoning Records

Project Description/Goal
- Scan and index zoning records and make them available to the public over the internet
- **Land Info Spending Category:** Other Parcel Work

Business Drivers
- Zoning officials need remote access to documents as part of the departments "Continuation of Operations Plan"
- Paper documents need an improved archival storage and retrieval system

Objectives/Measure of Success
- Safe long term storage of paper documents
- Proven ease of access to documents

Project Timeframes

Timeline – Project #4: Scan Zoning Records		
Milestone	**Duration**	**Date**
Study current storage method fall of 2021 for possible 2022 project	6 months	Oct 2021 – Mar 2022

Responsible Parties
- Contractor

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

Project #5: Scan Old Parcel Books and Tax Rolls

Project Description/Goal
- Scan old parcel map books for archival storage and retrieval
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers
- Land Records officials need remote access to documents as part of the departments "Continuation of Operations Plan"
- Paper documents need an improved archival storage and retrieval system

Objectives/Measure of Success
- Safe long term storage of paper documents
- Proven ease of access to documents

Project Timeframes

Timeline – Project #4: Scan Zoning Records		
Milestone	**Duration**	**Date**
Study current storage method fall of 2022 for possible 2023 project	6 months	Oct 2022 – Mar 2023

Responsible Parties
- Contractor

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

Project #6: Land Records Hosting

Project Description/Goal
- Migrate from iDoc to AVID software
- **Land Info Spending Category:** Software

Business Drivers
- Need for improved digital recording
- Improved precision and accuracy in data entry
- Improved integration with Treasurer's recently update software
- Off-site hosting supports the departments "Continuation of Operations Plan"

Objectives/Measure of Success
- Improved software ease of use and added functionality for customers
- Improved integration and compatibility with other applications
- Maintain level of revenue from document fees

Project Timeframes

Timeline – Project #5: Land Records Hosting		
Milestone	**Duration**	**Date**
Spring install of software moving into production status by fall	12 months	Jan - Dec, 2021

Responsible Parties

- Land Records Software Vendor

Estimated Budget Information

- See table at the end of this chapter.

Project #7: NG911 Updates

Project Description/Goal

- Update Address Point & Street Centerline layers to support the NG911 data model
- **Land Info Spending Category:** Address Points & Street Centerlines

Business Drivers

- Use standard data model so data can be merged at the state level
- Meet data requirements of NG911 software

Objectives/Measure of Success

- Accurate address mapping of 911 calls in dispatch center
- Improved integration and compatibility with other counties

Project Timeframes

Timeline – Project #6: NG911 Updates		
Milestone	**Duration**	**Date**
Deadlines for NG911 not definite	12 months	Jan - Dec, 2023

Responsible Parties

- GIS Specialist

Estimated Budget Information

- See table at the end of this chapter.

Project #8: Education and Public Outreach

Project Description/Goal

- Develop and maintain County Land Information outreach display
- Present outreach display at annual County Fair
- **Land Info Spending Category:** Training and Education

Business Drivers

- Educate public on land information services available
- Educate public on use of services

Objectives/Measure of Success

- High number of display visitors
- Productive interaction of public with display
- Productive feedback on display content

Project Timeframes

Timeline – Project #7: Education and Public Outreach		
Milestone	**Duration**	**Date**
Annual county fair display early August	repeating	Aug, 2022-2023-2024

Responsible Parties

- Land Information Officer

Estimated Budget Information

- See table at the end of this chapter.

Project #9: Multi-function large format printer/scanner

Project Description/Goal

- Replace large format printer
- Subscribe to annual support contract
- Replenish printer supplies such as ink cartridges, printer heads, and paper rolls
- **Land Info Spending Category:** Hardware

Business Drivers

- Nearing end of current printer production and support lifecycle
- Minimize downtime of print services due to mechanical failure

Objectives/Measure of Success

- Consistent large format printing with limited downtown
- Improved economy of printing

Project Timeframes

Timeline – Project #8: Multi-function large format printer/scanner		
Milestone	**Duration**	**Date**
Begin trial program early fall and complete purchase at end of trial period	4 months	Sept - Dec, 2024

Responsible Parties

- Vendor

Estimated Budget Information

- See table at the end of this chapter.

Project #10: GPS Hardware

Project Description/Goal

- Purchase additional GPS unit for the Land Conservation Dept.
- Transfer current GPS unit to the Highway Dept.
- **Land Info Spending Category:** Hardware

Business Drivers

- Nearing end of current GPS production and support lifecycle
- Minimize conservation project delays due to GPS hardware problems
- Current GPS does not support iPad iOS, it only supports Android
- This GPS equipment is also used at times for GIS data collection and Emergency Management damage assessment

Objectives/Measure of Success

- Integration of GPS technology throughout multiple depts.
- Improved accuracy of project mapping

Project Timeframes

Timeline – Project #8: Multi-function large format printer/scanner		
Milestone	**Duration**	**Date**
Begin demo program early fall and complete purchase at end of trial period	4 months	Sept - Dec, 2022

Responsible Parties

- Vendor

Estimated Budget Information

- See table at the end of this chapter.

Estimated Budget Information (All Projects)

			Land Info Plan Citations	
Project Title	**Item**	**Unit Cost/Cost**	Page # or section ref.	**Project Total**
Project Plan for PLSS (Benchmark 4)	90% PLSS remonumentation with survey grade GPS coordinates	$1,400 X 250 = $350,000 Grothman contract	Page 24	–
	Integrate PLSS with parcel mapping	$10,000 X 3 years = $30,000 In-house GIS Specialist		–
				$380,000
1) Oblique Imagery Update	Contract with EagleView	$100,000	Page 24	–
				$100,000
2) Import Surveys into Imaging	Contract with Fidlar	$10,000	Page 24	–
				$10,000
3) Move GIS to the Cloud	Contract with ESRI	$10,000	Page 25	–
				$10,000
4) Scan Zoning Records	Contract with Intern	$40,000	Page 25	–
				$40,000
5) Scan Old Parcel Books and Tax Rolls	Contract with Fidlar	$20,000	Page 26	–
				$20,000
6) Land Records Hosting	Contract with Transcendent	$10,000	Page 26	–
				$10,000
7) NG911 updates	Contract with GeoComm	$10,000	Page 27	–
				$10,000
8) Education and Public Outreach	Booth Displays	$2000 x each of 3 years	Page 27	–
				$6,000
9) Multi-function large format printer/scanner	HP printer Annual HP Support HP supplies	$10,000 $1000 x each of 3 years $1000 x each of 3 years	Page 28	–
				$16,000
10) GPS Hardware	Turning Point – Carlson Seiler – Trimble	$15,000 $3,000	Page 28	
				$18,000
			GRAND TOTAL	**$620,000**

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

2022 Grant Eligibility Table

	State FY21 Retained Fees (July 2020-June 2021)	BB Grant Eligibility ($100k − FY21 Retained Fees)	Strategic Initiative Grant Eligibility	Training & Education Grant Eligibility	Total Grant Eligibility Amount
Adams	72,840	27,160	60,000	1,000	88,160
Ashland	31,080	68,920	60,000	1,000	129,920
Barron	103,968	NA	60,000	1,000	61,000
Bayfield	53,264	46,736	60,000	1,000	107,736
Brown	450,800	NA	60,000	1,000	61,000
Buffalo	29,656	70,344	60,000	1,000	131,344
Burnett	61,456	38,544	60,000	1,000	99,544
Calumet	98,880	1,120	60,000	1,000	62,120
Chippewa	134,328	NA	60,000	1,000	61,000
Clark	60,088	39,912	60,000	1,000	100,912
Columbia	129,752	NA	60,000	1,000	61,000
Crawford	31,192	68,808	60,000	1,000	129,808
Dane	1,104,616	NA	60,000	1,000	61,000
Dodge	152,784	NA	60,000	1,000	61,000
Door	95,344	4,656	60,000	1,000	65,656
Douglas	80,784	19,216	60,000	1,000	80,216
Dunn	76,784	23,216	60,000	1,000	84,216
Eau Claire	170,336	NA	60,000	1,000	61,000
Florence	16,064	83,936	60,000	1,000	144,936
Fond du Lac	172,832	NA	60,000	1,000	61,000
Forest	28,376	71,624	60,000	1,000	132,624
Grant	82,648	17,352	60,000	1,000	78,352
Green	79,528	20,472	60,000	1,000	81,472
Green Lake	43,872	56,128	60,000	1,000	117,128
Iowa	54,928	45,072	60,000	1,000	106,072
Iron	20,200	79,800	60,000	1,000	140,800
Jackson	40,720	59,280	60,000	1,000	120,280
Jefferson	168,208	NA	60,000	1,000	61,000
Juneau	60,960	39,040	60,000	1,000	100,040
Kenosha	258,008	NA	60,000	1,000	61,000
Kewaunee	38,224	61,776	60,000	1,000	122,776
La Crosse	213,144	NA	60,000	1,000	61,000
Lafayette	37,120	62,880	60,000	1,000	123,880
Langlade	47,728	52,272	60,000	1,000	113,272
Lincoln	68,344	31,656	60,000	1,000	92,656
Manitowoc	132,944	NA	60,000	1,000	61,000
Marathon	252,760	NA	60,000	1,000	61,000
Marinette	95,104	4,896	60,000	1,000	65,896
Marquette	37,664	62,336	60,000	1,000	123,336
Menominee	5,192	94,808	60,000	1,000	155,808
Milwaukee	1,117,064	NA	60,000	1,000	61,000
Monroe	89,168	10,832	60,000	1,000	71,832
Oconto	97,808	2,192	60,000	1,000	63,192
Oneida	121,456	NA	60,000	1,000	61,000
Outagamie	335,928	NA	60,000	1,000	61,000
Ozaukee	190,488	NA	60,000	1,000	61,000
Pepin	15,744	84,256	60,000	1,000	145,256
Pierce	77,120	22,880	60,000	1,000	83,880
Polk	113,440	NA	60,000	1,000	61,000
Portage	116,936	NA	60,000	1,000	61,000
Price	39,744	60,256	60,000	1,000	121,256
Racine	327,032	NA	60,000	1,000	61,000
Richland	32,176	67,824	60,000	1,000	128,824
Rock	270,296	NA	60,000	1,000	61,000
Rusk	36,448	63,552	60,000	1,000	124,552
Sauk	161,192	NA	60,000	1,000	61,000
Sawyer	65,792	34,208	60,000	1,000	95,208
Shawano	82,144	17,856	60,000	1,000	78,856
Sheboygan	191,608	NA	60,000	1,000	61,000
St. Croix	221,216	NA	60,000	1,000	61,000
Taylor	41,696	58,304	60,000	1,000	119,304
Trempealeau	55,416	44,584	60,000	1,000	105,584
Vernon	58,720	41,280	60,000	1,000	102,280
Vilas	99,840	160	60,000	1,000	61,160
Walworth	226,072	NA	60,000	1,000	61,000
Washburn	51,464	48,536	60,000	1,000	109,536
Washington	283,656	NA	60,000	1,000	61,000
Waukesha	869,928	NA	60,000	1,000	61,000
Waupaca	100,704	NA	60,000	1,000	61,000
Waushara	56,752	43,248	60,000	1,000	104,248
Winnebago	279,408	NA	60,000	1,000	61,000
Wood	121,280	NA	60,000	1,000	61,000
Total	**10,840,256**	**1,851,928**	**4,320,000**	**72,000**	**6,243,928**

STATE OF WISCONSIN
DEPARTMENT OF ADMINISTRATION
DIVISION OF INTERGOVERNMENTAL RELATIONS

WISCONSIN LAND INFORMATION PROGRAM
PO BOX 8944, MADISON, WI 53708-8944
WLIP@wisconsin.gov
VOICE (608) 267-3369
FAX (608) 267-6917

2022 WLIP Training & Education Grant Application

County: _____

1. County submitted a 2022-2024 land information plan to DOA ☐ Yes ☐ No

2. Enter date of last county land information council meeting (mm/dd/yyyy) ▶ _____

3. LIO subscribed to the land information listserv ☐ Yes ☐ No

4. County's *Retained Fee/Grant Report* for 2020 submitted ☐ Yes ☐ No

5. Training & Education Award Eligible **$ 1,000.00**

6. Training & Education Award Amount Requested $ _____

7. Brief Description of Intended Expenditures for Training & Education Grant

(blank text box)

8. **Statement and Authorization of Land Information Officer**
As the Land Information Officer for the above county, I am authorized to submit this application, as an eligible applicant, on the authority of the county board. I understand that application authority shall be obtained by specific action of the county board, and that the WLIP may request evidence of such authority. Project work shall meet all standards and conditions as set forth by the relevant Wisconsin State Statutes, Wisconsin Administrative Code, and policy adopted by the Wisconsin Land Information Program or the Wisconsin Department of Administration. To the best of my knowledge, the information contained in this application is accurate and complete. I understand that Training & Education grant projects must be completed by December 31, 2023.

LIO Name (typed) _____   Date (mm/dd/yyyy) _____

STATE OF WISCONSIN
DEPARTMENT OF ADMINISTRATION
DIVISION OF INTERGOVERNMENTAL RELATIONS

WISCONSIN LAND INFORMATION PROGRAM
PO BOX 8944, MADISON, WI 53708-8944
WLIP@wisconsin.gov
VOICE (608) 267-3369
FAX (608) 267-6917

2022 WLIP **Strategic Initiative** Grant Application

County: _____

1. Strategic Initiative Award Eligible   **$ 60,000.00**

2. Strategic Initiative Award Amount Requested $ _____

BENCHMARK 1 & BENCHMARK 2

3. The county must meet Benchmark 1 and Benchmark 2 for the **V8** call for data by March 31, 2022 in the Searchable Format. Will the county use 2022 Strategic Initiative funding to work toward the Searchable Format for **V8** Benchmark 1 and 2 in the first quarter of 2022?

   ☐ Yes

   ☐ No

4. Will the county use 2022 Strategic Initiative Funding to work toward and/or maintain the Searchable Format for **V9** or **V10**?

   ☐ Yes

   ☐ No

5. Benchmark 1 and 2 Land Information Plan Citations for *Project Plan to Achieve Searchable Format for Benchmarks 1 & 2* – Page numbers (If answered "No" to #3-4 above, skip down to #8 below.)

   _____

6. Benchmark 1 and 2 Project Activities▼   Costs▼

Benchmark 1 and 2 Project Activities	Costs		
		7. Benchmark 1 and 2 Total Costs ▸	

8. Will county perform all of the data cleanup and standardization tasks described in the *V7 Observation Report* in order to meet the Searchable Format standard before submitting data for the **V8** call for data by March 31, 2022?

   ☐ Yes ▸ Skip down to #10 below

   ☐ NA – Not applicable because no deficiencies identified in *Observation Report* ▸ Skip down to #10 below

   ☐ No

9. If you answered "No" to SI_#8 above, briefly describe how you will address the deficiencies identified in the *V7 Observation Report* in order to meet the Searchable Format standard, explain why the deficiencies cannot be rectified by the V8 call for data, and how they will be addressed:

   _____

BENCHMARK 3

10. Is your county's digital parcel fabric complete (including incorporated areas)?

☐ Yes, parcel fabric complete

☐ No, county needs to work toward Benchmark 3 ▸ Estimated year of completion ▸ [   ]

11. Will county use 2022 Strategic Initiative funding to work toward Benchmark 3 (Completion of County Parcel Fabric)?

☐ Yes

☐ No ▸ Skip down to #15 below

12. Benchmark 3 Land Information Plan Citations for *Project Plan for Parcel Completion* – Page numbers

[   ]

13. <u>Benchmark 3 Project Activities</u>▼   <u>Costs</u>▼

		14. Benchmark 3 Total Costs ▸	

BENCHMARK 4

15. Is your county's PLSS framework complete and integrated into digital parcel layer?

☐ Yes, PLSS network complete and integrated

☐ No, county needs to work toward Benchmark 4 ▸ Estimated year of completion ▸ [   ]

16. Benchmark 4 waiver request – Check the waiver box below if you wish to request a waiver from Benchmark 4 in favor of LiDAR and/or Aerial Imagery costs

☐ No / Not Applicable

☐ Yes, waiver requested in favor of **LiDAR** project ▸ Fill out *2022 WLIP Grant Application Addendum*

☐ Yes, waiver requested in favor of **Imagery** project ▸ Fill out *2022 WLIP Grant Application Addendum*

17. Will county use 2022 Strategic Initiative funding to work toward Benchmark 4 (Completion and Integration of PLSS)?

☐ Yes

☐ No ▸ Skip down to #21 below

18. Benchmark 4 Land Information Plan Citations for *Project Plan for PLSS* – Page numbers

[   ]

19. <u>Benchmark 4 Project Activities</u>▼   <u>Costs</u>▼

		20. Benchmark 4 Total Costs ▸	

OTHER COUNTY-LEVEL STRATEGIC INITIATIVE PROJECTS

21. County anticipates meeting Benchmarks 1-4 (or 1-3 with LiDAR/aerial imagery waiver) **and** foresees having some of the $60k Strategic Initiative funding "leftover"?

      ☐ Yes

      ☐ No

22. Estimated amount of $60k to be left after applying any costs to achieve Benchmarks 1-4 (or 1-3 for LiDAR/aerial imagery waiver counties)

      ☐ Zero

      ☐ More than zero ▸ Specify amount ▸ **$** [ ]

           If "More than zero" is selected, use the *2022 WLIP Grant Application Addendum* to describe the projects you will use the Strategic Initiative funding for.

23. TOTAL ALL STRATEGIC INITIATIVE PROJECTS (should equal ≤ $60,000.00) ▸ **$** [ ]

24. **Statement and Authorization of Land Information Officer**

As the Land Information Officer for the above county, I am authorized to submit this application, as an eligible applicant, on the authority of the county board. I understand that application authority shall be obtained by specific action of the county board, and that the WLIP may request evidence of such authority. Project work shall meet all standards and conditions as set forth by the relevant Wisconsin State Statutes, Wisconsin Administrative Code, and policy adopted by the Wisconsin Land Information Program or the Wisconsin Department of Administration. To the best of my knowledge, the information contained in this application is accurate and complete. I understand that Strategic Initiative grant projects must be completed by December 31, 2023.

LIO Name (typed) [ ]   Date (mm/dd/yyyy) [ ]

STATE OF WISCONSIN
DEPARTMENT OF ADMINISTRATION
DIVISION OF INTERGOVERNMENTAL RELATIONS

WISCONSIN LAND INFORMATION PROGRAM
PO BOX 8944, MADISON, WI 53708-8944
WLIP@wisconsin.gov
VOICE (608) 267-3369
FAX (608) 267-6917

2022 WLIP Base Budget Grant Application

County:

1. Base Budget Award Eligible (from grant eligibility table on page 9) $

2. Base Budget Award Amount Requested $

3. **Base Budget Grant Project Title 1**

4. Land Information Spending Category:

5. Land Information Plan Citations – Page numbers

6. Project Activities▼   Costs▼

Project Activities	Costs		
		7. Base Budget Project 1 Total ▸	

8. **Base Budget Grant Project Title 2**

9. Land Information Spending Category:

10. Land Information Plan Citations – Page numbers

11. Project Activities▼   Costs▼

Project Activities	Costs		
		12. Base Budget Project 2 Total ▸	

13. **Base Budget Grant Project Title 3**

14. Land Information Spending Category:

15. Land Information Plan Citations – Page numbers

16. Project Activities ▼   Costs ▼

		17. Base Budget Project 3 Total ▸	

18. **Base Budget Grant Project Title 4**

19. Land Information Spending Category:

20. Land Information Plan Citations – Page numbers

21. Project Activities ▼   Costs ▼

		22. Base Budget Project 4 Total ▸	

23. TOTAL ALL BASE BUDGET PROJECT COSTS (not to exceed BB_#1) ▸ $

24. **Statement and Authorization of Land Information Officer**

As the Land Information Officer for the above county, I am authorized to submit this application, as an eligible applicant, on the authority of the county board. I understand that application authority shall be obtained by specific action of the county board, and that the WLIP may request evidence of such authority. Project work shall meet all standards and conditions as set forth by the relevant Wisconsin State Statutes, Wisconsin Administrative Code, and policy adopted by the Wisconsin Land Information Program or the Wisconsin Department of Administration. To the best of my knowledge, the information contained in this application is accurate and complete. I understand that Base Budget grant projects must be completed by December 31, 2023.

LIO Name (typed)   Date (mm/dd/yyyy)

Turning Point Systems Group

6480 N Industrial Road
Milwaukee, WI 53223

Voice: (414) 353-8774

QUOTATION

Quote Number: 20505
Quote Date: Jul 8, 2021
Page: 1

Quoted To:

Green Lake County Land Conservation
571 County Road A
PO Box 3188
Green Lake, WI 54941

Customer ID	Good Thru	Payment Terms	Sales Rep
10788	8/7/21	Net 30 Days	CDeTemple

Quantity	Item	Description	Unit Price	Amount
1.00	8030.020.037	BRx7 Smart Antenna kit	9,995.00	9,995.00
1.00	8030.060.004	Series Battery Charger Adapter		
2.00	8030.060.005	Series BP-5S Battery		
1.00	8030.060.007	Series Dual Battery Charger		
1.00	8030.080.067	Brx7 Case		
1.00	8030.085.002	Carlson Quick Release Pole Adapter		
1.00	5129-50	Seco Carbon Fiber GNSS Pole	5.00	5.00
1.00	6000.120.007	Carlson RT4 Geo Cell WiFi/BT 128GB	4,000.00	4,000.00
1.00	6606.003.000	Carlson SurvPC GPS 6.xx	990.00	990.00
1.00	5200-35	Seco DC Holder MESA 2/ RT4	5.00	5.00

Subtotal		14,995.00
Sales Tax		
TOTAL		**14,995.00**

Sales Quotation

Quote Number: 00068574

Contact Name:	Gerald Stanuch	
E-mail:	gstanuch@co.green-lake.wi.us	
Phone:	(920) 294-4174	

Date Issued:	09/22/21
Expiration Date:	10/22/21
Account Number:	119292

Ship To:
Green Lake County, WI
571 County Road A
Green Lake, WI 54941
United States

Bill To:
Green Lake County, WI
571 County Road A
Green Lake, WI 54941
United States

Sub-Meter mode (upgrade possible after POS)

Quantity	Part Number	Description	List Price	Sale Price	Subtotal
1.00	R2-101-00	Trimble R2, single receiver	$2,100.00	$2,100.00	$2,100.00
1.00	101070-00-01	Trimble Geospatial Accessory - Dual Battery Charger with Power Supply and Power Cord (North America)	$630.00	$630.00	$630.00
1.00	R2-CFG-001-41	Trimble R2 Configuration Level - Sub-Meter mode	$210.00	$210.00	$210.00
1.00	EWLS-R2-STOCK	TPP - Hardware - Trimble R2 (12 month expiration)	$340.00	$340.00	$340.00
1.00	EWLS-R2-FW-STOCK	TPP - Firmware Maintenance - Trimble R2 (12 month expiration)	$210.00	$210.00	$210.00
1.00	PCUSTOM	1520 CUSTOMIZED PELICAN CASE	$300.00	$300.00	$300.00
1.00	43169-10	Rod - 2.0m Carbon Fiber Range Pole without Bipod	$298.00	$298.00	$298.00
1.00	100944	X-grip for 10-inch Tablets Consists of 3 parts. Device cradle, double socket arm, and 1.25" OD pole claw. It is important to verify the dimensions of any tablet WITH a case/sleeve/skin when determining the overall size. This X-Grip cradle is compatible with most 9" to10" tablet devices and will fit the dimensions listed below: - Minimum Width = 6.25" - Maximum Width = 8.1" - Depth = 0.875" - Maximum Length (using additional supports) = 10.25" (cradle size TBD)	$200.00	$200.00	$200.00

Total Price: $4,288.00

Scheduled delivery times could be delayed due to vendor supply or Seiler personnel availability during the COVID19 Stay Home, Stay Safe orders, depending on location. Please communicate with your Seiler sales representative to ensure your timeline needs can be met before signing this quotation.

Please Contact Us:

Name: Gale Shea

Address: 9755 Airways Court
Franklin
Wisconsin, 53132
United States

Phone:

Mobile: (262) 212-0911

E-mail: gshea@seilerinst.com

Fax: (636) 923-2650

Terms: Net 30 Days

Net 30 upon approved credit. Major credit cards accepted and financing options available.

This Sales Quotation is subject to and governed by the Terms and Conditions of Sale referred to at https://www.seilergeo.com/general-terms-and-conditions/ which are hereby incorporated into this Quotation by reference. Any terms and conditions contained in any purchase order, order confirmation, or other document or communication you send or provide to Seiler which are in addition to or different from those set forth in said Terms and Conditions of Sale found at the above-link which are not separately agreed to by Seiler in writing are hereby considered material, objected to, and shall be null, void, and of no force or effect.

This Sales Quotation is subject to the Seiler Maximum Liability and Indemnification Agreement, version 041421. By signing this Sales Quotation, you are also agreeing to be bound by the terms and conditions of that Agreement.

Your signature below acknowledges acceptance of terms and conditions of this quote. Please sign and return via email or fax.

Signature: _____   **Date:** _____

Name: _____   **Title:** _____

Proposal to:

Scan Planning and Zoning Records

Presented to:

**Green Lake County
Land Use Planning & Zoning Dept.
571 County Road A
Green Lake, WI 54941**

Presented by:

**US Imaging, Inc.
400 S. Franklin Street
Saginaw, MI 48607**
www.us-imaging.com

Rhonda Olson
Project Manager
rolson@us-imaging.com
(989) 928-1559

August 5, 2021

US ★ Imaging

August 5, 2021

Matt Kirkman
Land Use Planning & Zoning Director
Green Lake County Land Use Planning & Zoning Department
571 County Road A
Green Lake, WI 54941

US Imaging, Inc. is pleased on this proposal to scan Planning and Zoning Records for Green Lake County. Our team will provide Green Lake County with an unparalleled combination of county expertise, proven processes, and state of the art technology to provide the highest quality images and indexes possible. US Imaging understands the scope of work required, the critical success factors, and the County's goals. US Imaging has become America's premier County Conversion Service for the following reasons:

- **Experience** – US Imaging's staff has been converting images for over 45 years and has served over 850 Counties Nationwide.
- **County Focus** – US Imaging is the only scanning vendor in America that serves Counties exclusively. We have successfully scanned & indexed records for every County document type.
- **State of The Art Scanners** – US Imaging is a beta test site for several scanner manufacturers, we typically receive the most scanning equipment in the world 3-6 months before any of our competitors.
- **On-Site Scanning** – US Imaging staff travel to the County and scan books on-site 24/7 to protect and preserve these irreplaceable documents.
- **On-Site Content Inspection** – If scanning is performed on-site, our editing staff will inspect 100% of the images before the on-site crew leaves the site to guarantee that no images were missed during scanning.
- **JPEG & TIFF Images** – US Imaging scans all media at 300dpi and provides both JPEG and TIFF images. Color or Grayscale JPEG images will provide large file size that is an exact digital backup of the original media. Black and white TIFF images will provide a small file size for superior performance in the imaging system.
- **ImageXpress Software** – US imaging provides a retrieval software program that allows Counties to access both TIFF and JPEG images prior to importing them into the Recording System.
- **Excess Border Removal –** US Imaging removes excess white borders, black borders, and microfilm camera copy boards to minimize file size, improve system performance and dramatically reduce toner consumption.
- **ImageReview –** US Imaging provides a software program that displays the Poor Quality Image Report and the Poor Quality images, so the County can easily sort, inspect, and approve Poor Quality images for enhancement.
- **Image Enhancement** – US Imaging can adjust the poor contrast of an entire roll, splice, book, document, page, or any specific area on a page to provide the most legible images possible.
- **Backup –** US Imaging stores a backup of all images to provide duplicating, reformatting & enhancement services on demand or en mass at any time in the future.
- **Guaranteed Quality** – If a County is not satisfied with any image, we will attempt to correct it for free.

We appreciate the opportunity to present our services and look forward to working with you.   If you have any questions, please call (989) 754-9949 or e-mail rolson@us-imaging.com.

Sincerely,

Rhonda Olson
Project Manager
US Imaging, Inc.

Green Lake County Requirements:

- **Work Area** - County will provide a 12' x 18' space inside the County Building, near the vault with access 24 hours per day, 7 days a week, electricity, lighting, and heat/air to allow on-site scanning. If on-site time is less than 24/7, the time and investment to complete will change according to the hours and days access is available.
- **Hardware** – County will allocate sufficient hard drive storage to import TIFF images into the system.
- **Import** – County will work with system vendor to import images into their recording system.
- **Pilot** - County will inspect the first 1,000 images each time that the media changes and approve image quality and index accuracy or request changes prior to completing Stage 2 and 3.
- **Poor Quality Image Report** – County will review images on the poor quality image report and approve which images are to be enhanced.

US Imaging Requirements:

Stage 1 – Capture & Pilot

- **On-Site Scanning** – We will provide all necessary hardware, software, staff, and project managers to perform scanning at your facility 24 hours per day, 7 days a week. If on-site time is less than 24/7, the time and investment to complete will change according to the hours and days access is available.
- **Inventory** – US Imaging Staff will create an inventory report of all the media types for the entire range of images that require capture. This on-line report will be utilized to track the progress of the project from start to finish.
- **Book Tracking** – Labels will be applied to the County's shelving units to identify the location where books are to be returned after scanning. Labels will be removed once scanning is complete.
- **Book Inspection** - If books or pages in mechanical binders require sorting or preparation, we can sort or prep them for $30.00 per hour. If pages are too fragile to handle, we will bring this to the County's attention and recommend a Book Restoration and Binding Company.
- **Book Handling** - Books will be removed from shelves in sequential order. Bound pages will remain in the binder and placed in a custom book cradle during capture to hold 2 pages (left & right) open, flat, level and in focus. Pages in mechanical binders that are smaller than 12" will be removed from the binders and fed through a document scanner. After scanning, pages will be placed back into mechanical binders and books will be put back onto shelves in order.
- **Bound Book Scanning** – Pages within a bound (sewn or glued) binder will not be cut and the pages and binder will remain as intact. Pages will be scanned on a book scanner at 300dpi and are saved as color JPEG images. Our Book Scanners will capture 2 pages (left & right) per image, utilize book cradles to hold pages level & a glass platen will flatten the pages to minimize spine curvature and allow the scanner to obtain consistent focus and sharpness across both pages. US Imaging will scan the spine of each book to capture the date range.
- **Mechanical Book Scanning** – Handwritten, Typed and Photostat pages are removed from mechanical binders and are scanned in color at 300dpi and are saved as color JPEG images. Pages are fed through an automatic document feeder and capture the front and back of the page simultaneously to create 2 individual JPEG images. Scanners will be cleaned each time that vertical lines appear to minimize file size and eliminate data from being covered up. US Imaging will scan the spine of each book to capture the date range.
- **On-Site Content Inspection –** After scanning, our on-site staff will inspect 100% of the pages as 1"x1.5" thumbnail images to confirm that no pages have been double fed, cut off, stretched, or contain scanner errors. Any pages with these issues will be rescanned at no charge before the on-site team leaves the premise. If pages are sequentially numbered within each book, our on-site staff will confirm that the quantity of images within each book directory matches the last page number within each book. If there are any mismatches between number of images and number of pages, they will be corrected if present or noted in the production report. 100% of the JPEG and TIFF images will be thoroughly inspected for legibility and image quality as 12"x18" full size images in Stage 2.
- **JPEG to TIFF Conversion -** All JPEG images will be converted to 300dpi single page Black & White TIFF images with Group IV compression. TIFF images will be sequentially numbered by a zero filled 8-digit number and stored in folders named by the Document Type and Book #.
- **Automatic Image Enhancement** - Each TIFF image will be automatically deskewed and solid black borders will be removed for optimum file compression. Despeckle is not performed on scanned images to preserve punctuation.
- **Automatic Polarity Reversal** – Each TIFF image will be automatically reversed. Black images with white text, will be reversed to white images with black text. If Dual Polarity exists, this will be corrected in Stage 3.
- **Pilot Images** – 1,000 images from each media change will be cropped, enhanced, grouped as documents, indexed by Document number or Book-Page number and saved as multi-page TIFF's that can be easily viewed by any imaging viewer. We will e-mail a link, username, and password to download the Pilot Images from our FTP site.
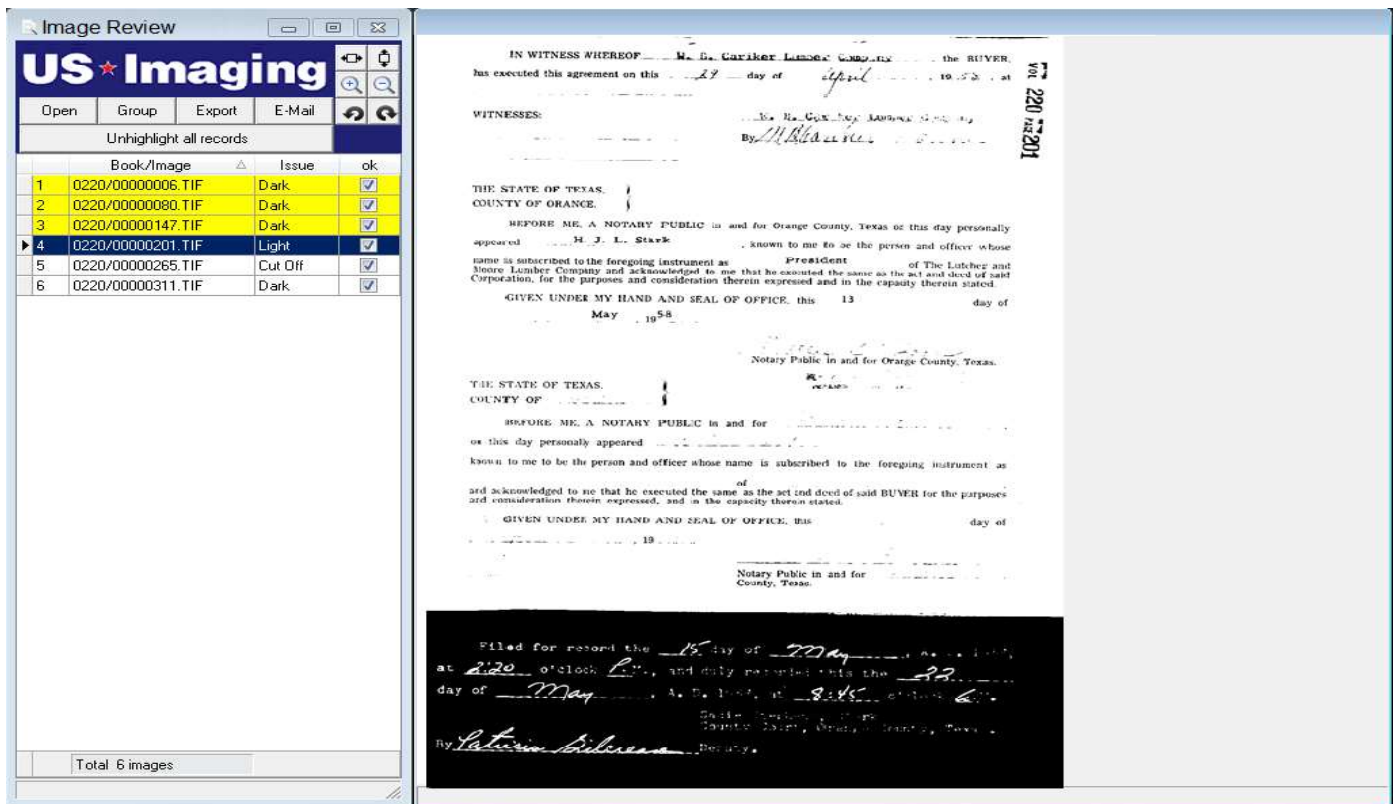
- **USB Hard Drives** – All single page JPEG and TIFF images will be copied to 2 sets of external USB Hard Drives.   1 set will be shipped to the County for review and on-site backup.   1 set will be stored at US Imaging for off-site backup.
- *ImageXpress* – We will provide a software utility called *ImageXpress* to allow the County to retrieve single page TIFF & JPEG images until final images from Stage 3 are completed and imported into the Recording System. End users can retrieve digital images in the same manner as they currently do from microfilm and books, only much faster!   Digital images can be viewed at Fit to Height, Fit to Width, Zoomed, Deskewed, Cropped, Redacted, Masked, Inverted, and viewed in Black & White or Grayscale.   Grayscale images can be adjusted lighter and darker and multiple pages can be selected for printing, saving, or e-mailing as TIFF, JPEG or PDF.   A web-based version is also available if the County would prefer to host the images or have US Imaging host the images. Training will be provided via GoToMeeting at no charge.
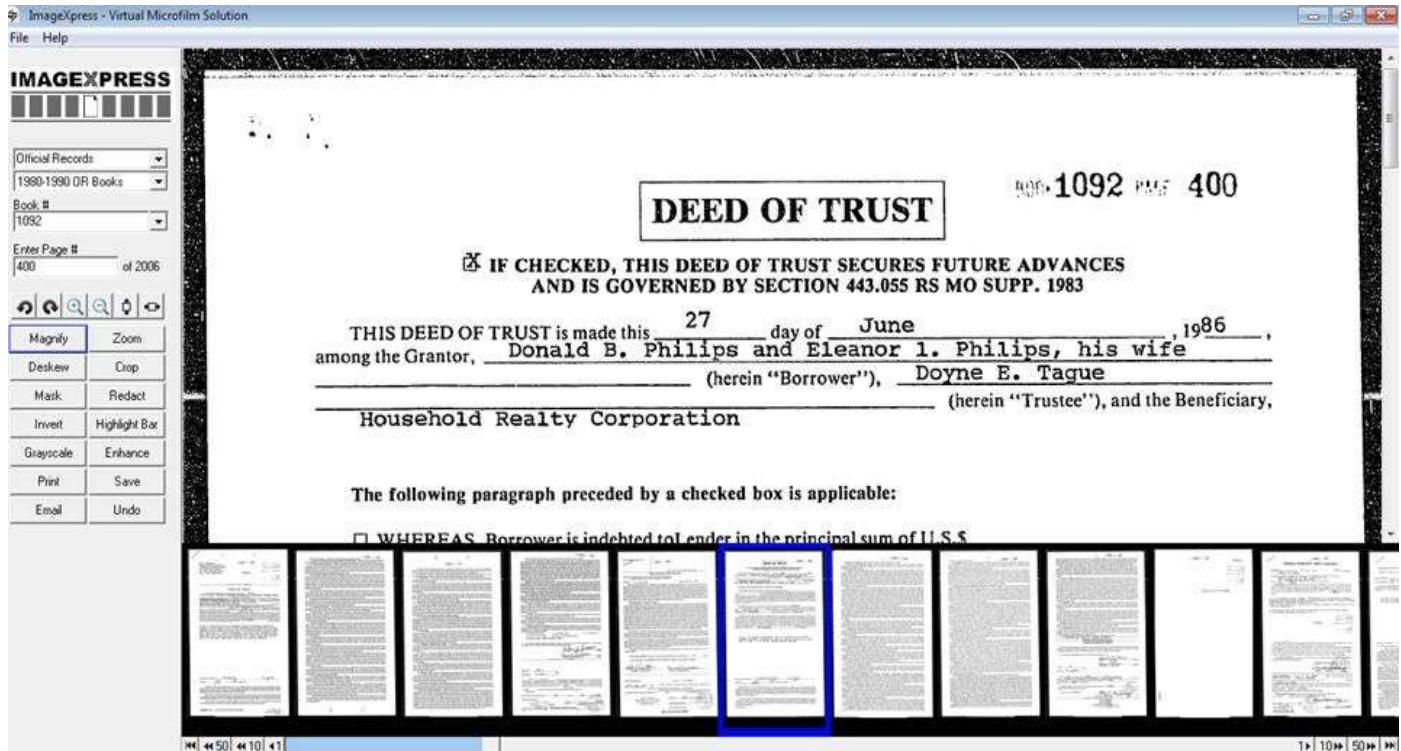
Stage 2 – Crop, Inspect, Duplicate, Double Group, Index & Verify

- **Excess Border Removal** – Due to page sizes the automatic crop included in Stage 1 may leave large white borders, black borders, black lines, and shadows on the images. Manual cropping can be performed to provide a more accurate original page size, fewer bytes per image and better performance of your system and overall appearance of every image. No data or marginal notations will be removed from the image during this process.
- **Single Inspect & Report Quality** – Each black and white TIFF image will be visually inspected as a 12"W x 18"H image on 27" Portrait monitors and compared to the color JPEG image on a second monitor and TIFF images with missing light data or gray shaded boxes that turn black with be reported as poor quality.   Our staff will also check for sequential page order, missing pages, duplicate pages, "A" pages, and image quality. Particular attention is to be given to the Party Names, Dates, Legal Descriptions and Signatures during this process. If any part of the image is considered illegible it will be added to the Poor Quality Image Report.   The poor quality issues that will be identified on the report are image too dark, image too light, blurry, white spots, black spots, poor original, out of order, missing, duplicate, and "A" page.
- **Double Inspect & Verify (Optional)** – Image quality is subjective, and we highly recommend a second opinion. 100% of the images will be inspected and reported a second time by a second inspector. The poor-quality images identified by the first inspector and the second inspector will be consolidated into one Poor Quality Report to guarantee the highest image quality possible.
- **Manually Group & Index –** During scanning images are captured as single images and stored in folders by each Book # or Document # range. If Computer Index data is not available, our staff will manually group individual pages together for each document and index each document by the Document # (when available) or Book-Page # of the first page of each new document in a single pass at 98% accuracy.

- **Double Group, Index & Verify (Optional) –** Manual grouping and Indexing is prone to human errors, and we highly recommend double grouping and indexing to eliminate them. 100% of the images will be grouped and indexed a second time by a second indexer. The documents and indexes identified by the first indexer and the second indexer will be compared electronically and any mismatches will be inspected, verified, or corrected by a third indexer to guarantee the highest grouping and indexing accuracy possible.

- **USB Hard Drives** – 100% of the inspected, cropped, grouped, indexed, and verified TIFF images, the Poor Quality Image Report and *ImageReview* Software will be copied to 2 sets of external USB Hard Drives. 1 set will be shipped to the County for review and on-site backup. 1 set will be copied to the Stage 1 drive and stored at US Imaging for off-site backup.

- *ImageReview* **Software** - We will provide a reviewing software program called *ImageReview* that will allow the County to easily sort the Poor Quality Report by Document-Page #, Book-Image # or Poor Quality Issue (light, dark, blurry, etc.). *ImageReview* can also filter the images by poor quality issue to isolate specific issues of concern and minimize the number of images that need to be reviewed. *ImageReview* will display the poor quality image so the County can see the problem with the image. Images can be deselected from the list if the image is of acceptable quality to the County. *ImageReview* highlights images on the list after they have been inspected so the users know if the image has already been inspected or not. Once inspection is complete, *ImageReview* exports an approved list of images to be enhanced that can be easily e-mailed to US Imaging and provide approval to proceed to Stage 3. This tool dramatically reduces the number of images that need to be inspected by the County and provides the County with complete control over the quality and budget.

Stage 3 – Enhance & Format

- **Image Enhancement** – US Imaging has the ability to adjust the black and white contrast of poor quality TIFF Images from the 256 shades of gray contained within the JPEG images.   We will only enhance County approved images on the poor quality image report. We can adjust the contrast of the entire page or any specific area on a page to provide the most legible images possible.
- **Formatting** - Images and indexes will be formatted to the format and specifications provided by the system vendor.
- **USB Hard Drives** – All formatted images will be copied to 2 sets of external USB Hard Drives.   1 set will be shipped to the County for import and on-site backup.   1 set will be copied to the Stage 1 drive and stored at US Imaging for off-site backup.
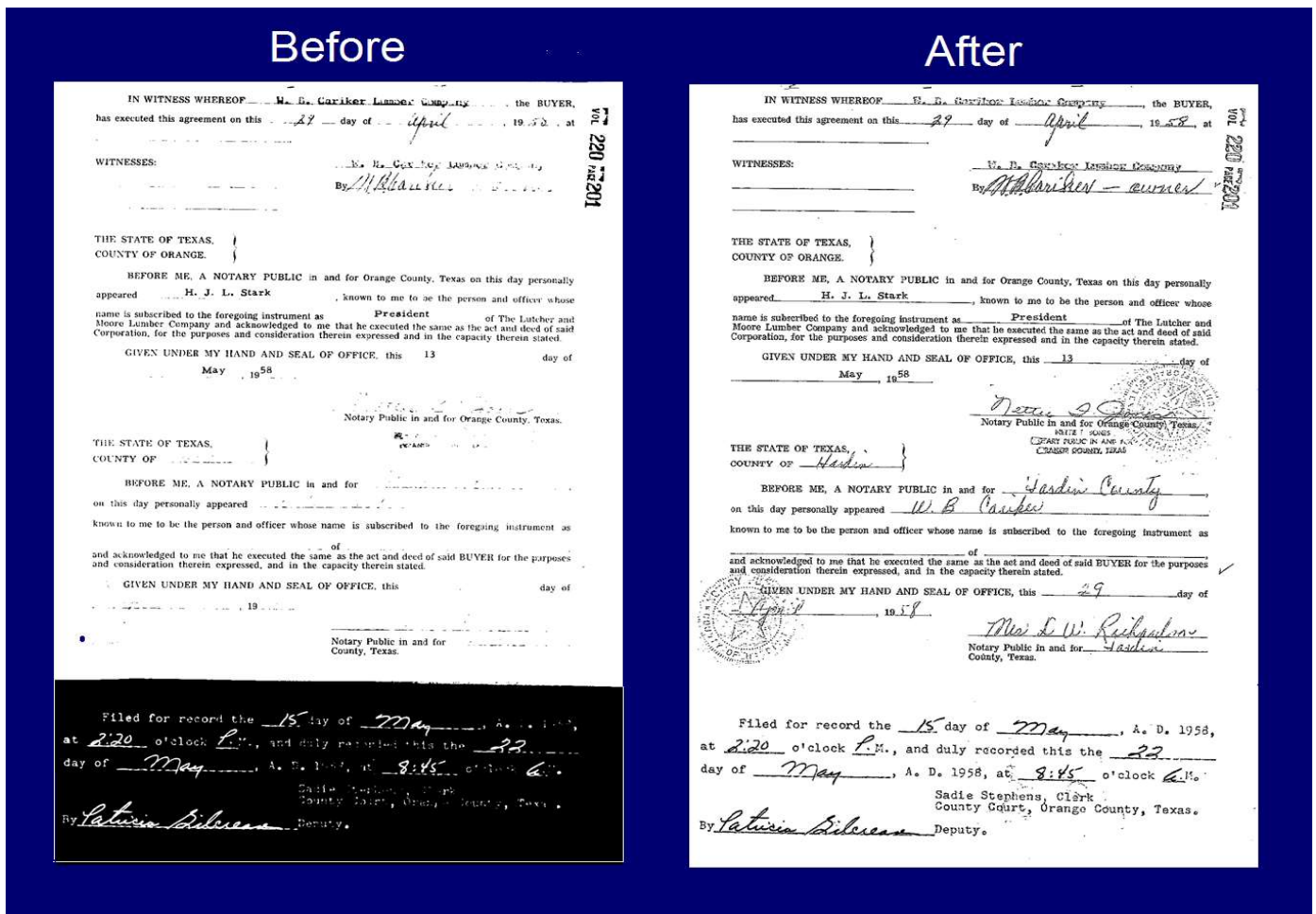
<u>Paper Scanning Specifications:</u>

- **Transportation** – Our experienced drivers will load the boxes into our locked trucks with GPS tracking and deliver the files directly to our facility in Saginaw, MI.
- **Boxes** – US Imaging will pack all files into archival quality storage boxes. These 15" x 12" x 10" double wall construction boxes are very durable and easy to setup.   These boxes can store 12" of Legal size files or 15" of Letter size files. Each box will be identified by the first and last file within each box and a unique barcode tracking number will be applied to each box for accurate tracking.
- **Tracking** – Barcode box labels are scanned every time a box is moved so boxes are always tracked within a 4' x 4' area within our facility at all times.
- **Document Preparation** – US Imaging will prepare the documents for scanning. Preparation includes removing staples, paper clips and sticky notes. Folders will contain permits for both sanitation and zoning, these files will be scanned as two separate documents.
- **Paper Scanning** – Pages will be carefully fed into a document feeder with 3 ultrasonic double feed sensors and scanned front and back simultaneously at 300dpi color JPEG's and black and white PDF. All images are sequentially numbered by a zero filled 8 digit number and stored in folders named by the name of the physical folder. All images are inspected on a 20" portrait monitor during scanning to check for any overlapping or skewed pages.   All scanned pages will be placed back into their folders and storage boxes.
- **USB Hard Drives** – All formatted images will be copied to external USB Hard Drives.   1 set of images will be shipped to the County for review and on-site backup on a new hard drive.   1 set of images will be copied to the Stage 1 backup drives stored at US Imaging.

Phase 1: Estimated Investment to Scan Flat Files On-Site

Flat Files

800 Files	@	1.1 Pages per File (11"x17")	=	880 Images
600 Files	@	1.1 Pages per File (18"x24")	=	660 Images
426 Files	@	1.1 Pages per File (24"x36")	=	469 Images
2,009 Images	@	20% Poor Quality Images	=	402 Poor Quality
2,009 Pages	@	1,000 Pages Prepped per Hour (1 Staff)	=	3 On-Site Hours
880 Images	@	1,000 11"x17" Images Scanned per Hour (1 Scanner)	=	1 On-Site Hours
1,129 Images	@	100 OS Images Scanned per Hour (1 WF Scanner)	=	12 On-Site Hours
16 Hours	@	22 Hours Per Day with 24 Hour Access	=	1 On-Site Days
2,009 Images	@	400 Images per GB for Color JPEG Format	=	6 GB for JPEG's
2,009 Images	@	4,000 Images per GB for B&W TIFF Format	=	1 GB for TIFF's

Stage 1

		$1,150.00 Travel & Setup for On-Site Scanning	=	$1,150.00	
1 Day	@	$400.00 Per Day On-Site with 24 Hour Access	=	$400.00	
2,009 Images	@	$0.75 Per Image to Scan & Inspect 300dpi JPEG	=	$1,506.45	
2,009 Images	@	$0.02 Per Image to Convert JPEG to B&W TIFF	=	$40.17	
2 Drives	@	$250.00 Per USB Hard Drive, Copying & Backup	=	$500.00	71%
1 Shipment	@	$25.00 Per USB Hard Drive Shipment	=	$25.00	$3,621.62

Stage 2

2,009 Images	@	$0.065 Per TIFF to Remove Excess Borders	=	$130.56	
2,009 Images	@	$0.065 Per TIFF to Single Inspect & Report to 98% Quality	=	$130.56	
2,009 Images	@	$0.065 Per TIFF to Double Inspect & Report to 100% Quality	=	$130.56	
2,009 Images	@	$0.065 Per TIFF to Single Group & Index to 98% Accuracy[1]	=	$130.56	
2,009 Images	@	$0.065 Per TIFF to Double Group & Index to 100% Accuracy[1]	=	$130.56	
1 Drive	@	$250.00 Per USB Hard Drive, Copying	=	$250.00	18%
1 Shipment	@	$25.00 Per USB Hard Drive Shipment	=	$25.00	$927.80

Stage 3

402 Images	@	$0.75 Per TIFF to Enhance & Replace Poor Quality	=	$301.50	
1 Drive	@	$250.00 Per USB Hard Drive, Copying	=	$250.00	11%
1 Shipment	@	$25.00 Per USB Hard Drive Shipment	=	$25.00	$576.50

Total Investment	=	**$5,125.92**

[1]Index by FLT #

Phase 2: Estimated Investment to Scan Certificate of Survey Books On-Site

Oversized Mechanical Books (13"x17")

1 Book	@	480	Pages per Book (Book 1)	=	480	Images

Mechanical Books (14"x9" to 12"x18")

2 Books	@	275	Pages per Book (Books 2-3)	=	550	Images
9 Books	@	2,354	Pages per Book (Books 4-11, plus some loose)	=	21,186	Images
22,216 Images	@	20%	Poor Quality Images	=	4,444	Poor Quality
480 Images	@	400	OS Images Scanned per Hour (1 Scanner)	=	2	On-Site Hours
21,736 Images	@	1,800	Mechanical Images Scanned per Hour (1 Scanner)	=	13	On-Site Hours
15 Hours	@	22	Hours Per Day with 24 Hour Access	=	1	On-Site Day
22,216 Images	@	400	Images per GB for Color JPEG Format	=	56	GB for JPEG's
22,216 Images	@	4,000	Images per GB for B&W TIFF Format	=	6	GB for TIFF's

Stage 1

		$1,150.00	Travel & Setup for On-Site Scanning (Incl. in Phase 1)	=	$0.00	
1 Day	@	$400.00	Per Day On-Site with 24 Hour Access	=	$400.00	
480 Images	@	$0.31	Per OS Image to Scan & Inspect 300dpi JPEG	=	$148.80	
21,736 Images	@	$0.115	Per Mechanical Image to Scan & Inspect 300dpi JPEG	=	$2,499.64	
22,216 Images	@	$0.015	Per Image to Convert JPEG to B&W TIFF	=	$333.24	
2 Drives	@	$250.00	Per USB Hard Drive, Copying & Backup (Incl. in Phase 1)	=	$0.00	34%
1 Shipment	@	$25.00	Per USB Hard Drive Shipment (Incl. in Phase 1)	=	$0.00	$3,381.68

Stage 2

22,216 Images	@	$0.04	Per TIFF to Remove Excess Borders	=	$888.64	
22,216 Images	@	$0.04	Per TIFF to Single Inspect & Report to 98% Quality	=	$888.64	
22,216 Images	@	$0.04	Per TIFF to Double Inspect & Report to 100% Quality	=	$888.64	
22,216 Images	@	$0.04	Per TIFF to Single Group & Index to 98% Accuracy[1]	=	$888.64	
22,216 Images	@	$0.04	Per TIFF to Double Group & Index to 100% Accuracy[1]	=	$888.64	
1 Drive	@	$250.00	Per USB Hard Drive, Copying (Incl. in Phase 1)	=	$0.00	44%
1 Shipment	@	$25.00	Per USB Hard Drive Shipment (Incl. in Phase 1)	=	$0.00	$4,443.20

Stage 3

4,444 Images	@	$0.50	Per TIFF to Enhance & Replace Poor Quality	=	$2,222.00	
1 Drive	@	$250.00	Per USB Hard Drive, Copying (Incl. in Phase 1)	=	$0.00	22%
1 Shipment	@	$25.00	Per USB Hard Drive Shipment (Incl. in Phase 1)	=	$0.00	$2,222.00

Total Investment	=	**$10,046.88**

[1]Index by Book-Page #

Phase 3: Estimated Investment to Scan Red Books On-Site

Mechanical Books (14.5"x12" with Tabs)

18 Books	@	515	Pages per Book - Simplex	=	9,270	Images

9,270 Images	@	15%	Poor Quality Images	=	1,391	Poor Quality
9,270 Images	@	1,000	Mechanical Images Scanned per Hour (1 Scanner)	=	10	On-Site Hours
10 Hours	@	22	Hours Per Day with 24 Hour Access	=	1	On-Site Day
9,270 Images	@	400	Images per GB for Color JPEG Format	=	24	GB for JPEG's
9,270 Images	@	4,000	Images per GB for B&W TIFF Format	=	3	GB for TIFF's

Stage 1

		$1,150.00	Travel & Setup for On-Site Scanning (Incl. in Phase 1)	=	$0.00	
1 Day	@	$400.00	Per Day On-Site with 24 Hour Access	=	$400.00	
9,270 Images	@	$0.115	Per Mechanical Image to Scan & Inspect 300dpi JPEG	=	$1,066.05	
9,270 Images	@	$0.015	Per Image to Convert JPEG to B&W TIFF	=	$139.05	
2 Drives	@	$250.00	Per USB Hard Drive, Copying & Backup (Incl. in Phase 1)	=	$0.00	39%
1 Shipment	@	$25.00	Per USB Hard Drive Shipment (Incl. in Phase 1)	=	$0.00	$1,605.10

Stage 2

9,270 Images	@	$0.04	Per TIFF to Remove Excess Borders	=	$370.80	
9,270 Images	@	$0.04	Per TIFF to Single Inspect & Report to 98% Quality	=	$370.80	
9,270 Images	@	$0.04	Per TIFF to Double Inspect & Report to 100% Quality	=	$370.80	
9,270 Images	@	$0.04	Per TIFF to Single Group & Index to 98% Accuracy[1]	=	$370.80	
9,270 Images	@	$0.04	Per TIFF to Double Group & Index to 100% Accuracy[1]	=	$370.80	
1 Drive	@	$250.00	Per USB Hard Drive, Copying (Incl. in Phase 1)	=	$0.00	45%
1 Shipment	@	$25.00	Per USB Hard Drive Shipment (Incl. in Phase 1)	=	$0.00	$1,854.00

Stage 3

1,391 Images	@	$0.50	Per TIFF to Enhance & Replace Poor Quality	=	$695.50	
1 Drive	@	$250.00	Per USB Hard Drive, Copying (Incl. in Phase 1)	=	$0.00	17%
1 Shipment	@	$25.00	Per USB Hard Drive Shipment (Incl. in Phase 1)	=	$0.00	$695.50

Total Investment	=	**$4,154.60**	

[1]Index by Book-Page #

Phase 4: Estimated Investment to Scan Brown Books On-Site

Mechanical Books (9.5"x13")

17 Books	@	100	Pages per Book - Simplex (mostly)	=	1,700	Images

1,700 Images	@	15%	Poor Quality Images	=	255	Poor Quality
1,700 Images	@	1,000	Mechanical Images Scanned per Hour (1 Scanner)	=	2	On-Site Hours
2 Hours	@	22	Hours Per Day with 24 Hour Access	=	1	On-Site Day
1,700 Images	@	400	Images per GB for Color JPEG Format	=	5	GB for JPEG's
1,700 Images	@	4,000	Images per GB for B&W TIFF Format	=	1	GB for TIFF's

Stage 1

		$1,150.00	Travel & Setup for On-Site Scanning (Incl. in Phase 1)	=	$0.00	
1 Day	@	$400.00	Per Day On-Site with 24 Hour Access	=	$400.00	
1,700 Images	@	$0.115	Per Mechanical Image to Scan & Inspect 300dpi JPEG	=	$195.50	
1,700 Images	@	$0.015	Per Image to Convert JPEG to B&W TIFF	=	$25.50	
2 Drives	@	$250.00	Per USB Hard Drive, Copying & Backup (Incl. in Phase 1)	=	$0.00	63%
1 Shipment	@	$25.00	Per USB Hard Drive Shipment (Incl. in Phase 1)	=	$0.00	$621.00

Stage 2

1,700 Images	@	$0.04	Per TIFF to Remove Excess Borders	=	$68.00	
1,700 Images	@	$0.04	Per TIFF to Single Inspect & Report to 98% Quality	=	$68.00	
1,700 Images	@	$0.04	Per TIFF to Double Inspect & Report to 100% Quality	=	$68.00	
1,700 Images	@	$0.00	Per TIFF to Group as Book	=	$0.00	
1 Drive	@	$250.00	Per USB Hard Drive, Copying (Incl. in Phase 1)	=	$0.00	21%
1 Shipment	@	$25.00	Per USB Hard Drive Shipment (Incl. in Phase 1)	=	$0.00	$204.00

Stage 3

255 Images	@	$0.50	Per TIFF to Enhance & Replace Poor Quality	=	$127.50	
1,700 Images	@	$0.015	Per TIFF to Convert to B&W PDF	=	$25.50	
1 Drive	@	$250.00	Per USB Hard Drive, Copying (Incl. in Phase 1)	=	$0.00	16%
1 Shipment	@	$25.00	Per USB Hard Drive Shipment (Incl. in Phase 1)	=	$0.00	$153.00

Total Investment	=	**$978.00**	

Phase 5: Estimated Investment to Scan 1996-2000 Tax Roll Books On-Site

Mechanical Books (15"x11")

80 Books	@	200 Pages per Book* - Folio, Stitching Required	=	32,000	Images	

16,000 Images	@	15% Poor Quality Images	=	2,400	Poor Quality	
32,000 Images	@	1,800 Mechanical Images Scanned per Hour (1 Scanner)	=	18	On-Site Hours	
18 Hours	@	22 Hours Per Day with 24 Hour Access	=	1	On-Site Day	
32,000 Images	@	400 Images per GB for Color JPEG Format	=	80	GB for JPEG's	
16,000 Images	@	4,000 Images per GB for B&W TIFF Format	=	4	GB for TIFF's	

Stage 1

		$1,150.00 Travel & Setup for On-Site Scanning (Incl. in Phase 1)	=	$0.00	
1 Day	@	$400.00 Per Day On-Site with 24 Hour Access	=	$400.00	
32,000 Images	@	$0.115 Per Mechanical Image to Scan & Inspect 300dpi JPEG	=	$3,680.00	
32,000 Images	@	$0.015 Per Image to Convert JPEG to B&W TIFF	=	$480.00	
2 Drives	@	$250.00 Per USB Hard Drive, Copying & Backup (Incl. in Phase 1)	=	$0.00	36%
1 Shipment	@	$25.00 Per USB Hard Drive Shipment (Incl. in Phase 1)	=	$0.00	$4,560.00

Stage 2

32,000 Images	@	$0.04 Per TIFF to Remove Excess Borders	=	$1,280.00	
32,000 Images	@	$0.04 Per TIFF to Stitch Pages Together	=	$1,280.00	
16,000 Images	@	$0.08 Per Folio TIFF to Single Inspect & Report to 98% Quality	=	$1,280.00	
16,000 Images	@	$0.08 Per Folio TIFF to Double Inspect & Report to 100% Quality	=	$1,280.00	
16,000 Images	@	$0.00 Per TIFF to Group as Book	=	$0.00	
1 Drive	@	$250.00 Per USB Hard Drive, Copying (Incl. in Phase 1)	=	$0.00	41%
1 Shipment	@	$25.00 Per USB Hard Drive Shipment (Incl. in Phase 1)	=	$0.00	$5,120.00

Stage 3

2,400 Images	@	$1.00 Per Folio TIFF to Enhance & Replace Poor Quality	=	$2,400.00	
16,000 Images	@	$0.03 Per Folio TIFF to Convert B&W PDF	=	$480.00	
1 Drive	@	$250.00 Per USB Hard Drive, Copying (Incl. in Phase 1)	=	$0.00	23%
1 Shipment	@	$25.00 Per USB Hard Drive Shipment (Incl. in Phase 1)	=	$0.00	$2,880.00

Total Investment	=	**$12,560.00**

*Scan and Keep Blank Pages

Phase 6: Estimated Investment to Scan Plat Books On-Site

Plat Book (Thick Paper)

1 Book	@	12	Pages per Book	=	12 Images	

12 Images	@	100%	Poor Quality Images	=	12 Poor Quality	
12 Images	@	300	Bound Images Scanned per Hour (1 Scanner)	=	1 On-Site Hours	
1 Hours	@	22	Hours Per Day with 24 Hour Access	=	1 On-Site Day	
12 Images	@	400	Images per GB for Color JPEG Format	=	1 GB for JPEG's	
12 Images	@	4,000	Images per GB for B&W TIFF Format	=	1 GB for TIFF's	

Stage 1

		$1,150.00	Travel & Setup for On-Site Scanning (Incl. in Phase 1)	=	$0.00	
1 Day	@	$400.00	Per Day On-Site with 24 Hour Access (Incl. in Phase 1-5)	=	$0.00	
12 Images	@	$0.75	Per Image to Scan & Inspect 300dpi JPEG	=	$9.00	
12 Images	@	$0.025	Per Image to Convert JPEG to B&W TIFF	=	$0.30	
2 Drives	@	$250.00	Per USB Hard Drive, Copying & Backup (Incl. in Phase 1)	=	$0.00	36%
1 Shipment	@	$25.00	Per USB Hard Drive Shipment (Incl. in Phase 1)	=	$0.00	$9.30

Stage 2

12 Images	@	$0.08	Per TIFF to Remove Excess Borders	=	$0.96	
12 Images	@	$0.08	Per TIFF to Single Inspect & Report to 98% Quality	=	$0.96	
12 Images	@	$0.08	Per TIFF to Double Inspect & Report to 100% Quality	=	$0.96	
12 Images	@	$0.08	Per TIFF to Single Group & Index to 98% Accuracy	=	$0.96	
12 Images	@	$0.08	Per TIFF to Double Group & Index to 100% Accuracy	=	$0.96	
1 Drive	@	$250.00	Per USB Hard Drive, Copying (Incl. in Phase 1)	=	$0.00	18%
1 Shipment	@	$25.00	Per USB Hard Drive Shipment (Incl. in Phase 1)	=	$0.00	$4.80

Stage 3

12 Images	@	$1.00	Per TIFF to Enhance & Replace Poor Quality	=	$12.00	
1 Drive	@	$250.00	Per USB Hard Drive, Copying (Incl. in Phase 1)	=	$0.00	46%
1 Shipment	@	$25.00	Per USB Hard Drive Shipment (Incl. in Phase 1)	=	$0.00	$12.00

Total Investment	=	**$26.10**	

Phase 7: Estimated Investment to Scan Parcel Files Off-Site

Paper Files

34 Drawers	@	38	Inches per Drawer	=	1,292 Inches
1,292 Inches	@	200	Pages per Inch	=	258,400 Pages
258,400 Pages	@	20%	Pages with Backsides	=	51,680 Backsides
310,080 Images	@	100	Images per File	=	3,101 File
3,101 Files	@	2	Documents per File (Zoning / Sanitation)	=	6,202 Docs
258,400 Pages	@	750	Pages Prepped per Hour	=	345 Prep Hours
1,292 Inches	@	15	Inches per 15" Storage Box	=	87 Boxes
310,080 Images	@	400	Images per Gigabyte for Color JPEG Format	=	776 GB JPEG's
310,080 Images	@	4,000	Images per Gigabyte for B&W TIFF Format	=	78 GB TIFF's
87 Boxes	@	$10.00	Per 15" Archival Storage Box & Packing	=	$870.00
345 Hours	@	$25.00	Per Hour to Prep Pages for Scanning	=	$8,625.00
310,080 Images	@	$0.07	Per Image to Scan 300dpi JPEG & Re-File	=	$21,705.60
310,080 Images	@	$0.01	Per Image to Convert JPEG to B&W TIFF	=	$3,100.80
6,202 Docs	@	$0.75	Per Document to Group & Index (Parcel #, Doc Type)	=	$4,651.50
1 Transport	@	$2,500.00	Roundtrip Transportation of Files	=	$2,500.00
2 Drives	@	$250.00	Per USB Hard Drive, Copying & Backup	=	$500.00
1 Shipment	@	$25.00	Per USB Hard Drive Shipment	=	$25.00

Total Investment = **$41,977.90**

*US Imaging will pack the files while on-site. Pickup and Return will be performed by Authorized USI personnel.

ACCEPTANCE AND AUTHORIZATION:

The proposed quantities above are estimated, invoiced quantities will be actual. Invoices will be issued with each shipment and will be determined by the quantity of work actually returned.

US Imaging will not reproduce or distribute images and/or indexes to any other entity except the Green Lake County.

During the term of this agreement, US Imaging, Inc. agrees to extend quoted per item prices, terms and conditions to all Government Agencies that may benefit from Cooperative Purchasing as applicable by their local and state regulations.

Green Lake County may designate acceptance of this proposal by signature of a duly authorized officer or representative of the company. Total costs for initial implementation and ongoing costs have been described herein.

In exchange for products and services outlined in this proposal, Green Lake County agrees to pay US Imaging, Inc., the total amount due within 30 days from the date of invoice.

US Imaging also reserves the right to collect monies owed in the event of nonpayment and recover any and all legal fees in addition to the unpaid balance.

Accepted by: **Accepted by:**

Matt Kirkman   Rhonda Olson
Land Use Planning & Zoning Director   Project Manager
Green Lake County   US Imaging, Inc.
571 County Road A   400 S. Franklin Street
Green Lake, WI 54941   Saginaw, MI 48607

Signature: _____   Signature: _____

Date: _____   Date: <u>August 5, 2021</u>

Please check the approved Phase(s):

_____	Phase 1: Scan Flat Files On-Site	=	$4,864.80
_____	Phase 2: Scan Certificate of Survey Books On-Site	=	$8,269.60
_____	Phase 3: Scan Red Books On-Site	=	$3,413.00
_____	Phase 4: Scan Brown Books On-Site	=	$910.00
_____	Phase 5: Scan 1996-2000 Tax Roll Books On-Site	=	$11,280.00
_____	Phase 6: Scan Plat Books On-Site	=	$24.18
_____	Phase 7: Scan Parcel Files Off-Site	=	<u>$41,977.90</u>
	Total Estimated Investment	=	**$70,739.48**

Optional Services

_____	Stage 2: Double Inspect & Report to 100% Quality	=	$2,738.96
_____	Stage 2: Double Group & Index to 100% Accuracy	=	$1,390.96
	Total Estimated Investment, All Options =		**$74,869.40**