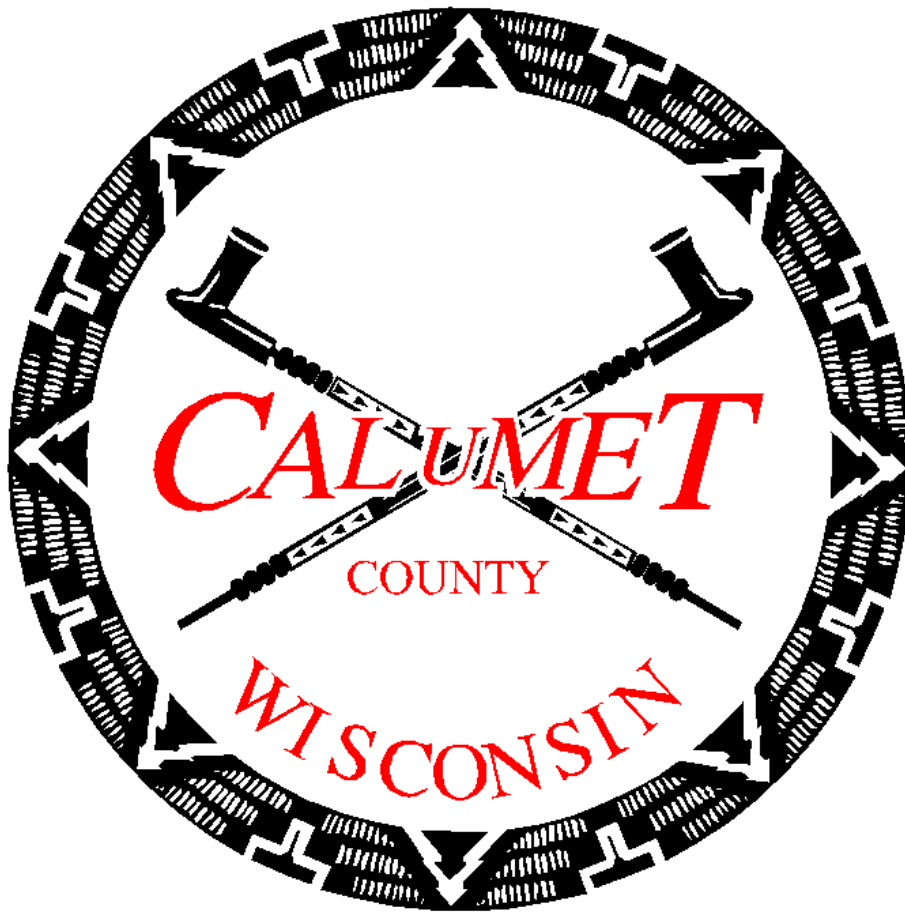


# CALUMET COUNTY

LAND RECORDS MODERNIZATION PLAN  
2005-2010



Prepared by:  
The Calumet County Land Information Office

## I. EXECUTIVE SUMMARY

### A. Plan designer

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### B. Participants in the plan development

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Chris Nordeng	Coordinator	Emergency Management	206 Court St.	(920) 849-1473
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### C. Summary of the Plan

Calumet County is submitting this Land Records Modernization Plan for review and adoption. The focus of this plan is to define land record modernization goals and objectives for the next five years. This Plan will define Calumet County's goals and objectives, report the progress of its current activities, and describe new initiatives that it would like to undertake. It will describe: who maintains land records within the county; how the county has completed or plans to complete the individual foundational elements of modernization; how the county will comply with state-wide standards; and how the county plans to share and integrate this information.

D. County Land Information Web Site: <http://www.co.calumet.wi.us/>

E. Municipal Land Information Web Sites: None

## II. LAND INFORMATION MODERNIZATION AND INTEGRATION PLAN

### A. Goals and Objectives

The mission of the County program is to implement a Land and Geographic Information System (LIS/GIS) that will suit the needs of the public and private sectors, as well as its users within the county and other governmental entities. With many of the foundation elements complete, the County goals are now focusing on how to provide services to its customers in a cost effective manner.

- **Goal:** Continue to develop and deploy an integrated land information system.

Objectives	Status
Obtain new ortho photography on a five year cycle.	2005
Create an County Plat Book (in house)	2005 / then annually
Provide Wireless 911	2006
Convert data design of GIS layers to Geodatabase	2006-7
Implement new countywide imaging system	2006
Develop 'Enterprise GIS' with implementation of ArcSDE	2009

- **Goal:** Coordinate modernization activities with other land records agencies.

Objectives	Status
Work with DNR to obtain digital wetlands	2007
Work with DNR to obtain update land cover dataset.	2006
Work with WNHGS to obtain geology dataset	2005
Work with ECRPC to share in existing datasets and develop of new datasets.	On going
Work with local municipalities to enhance the GIS program to meet municipal needs.	On going
Work with FEMA / DNR on the creation of new Floodplain maps	2008

- **Goal:** Improve data accuracy and reliability.

Objectives	Status
Complete Metadata for datasets	2006
Provide Wireless 911	2006
Develop Sanitary Application for Track Systems	2005
Develop Zoning Application to Track permits and violations	2006
Work with local assessors to develop digital file sharing	On going

- **Goal:** Improve cost-effectiveness.

Objectives	Status
Improve tools on County Web site to allow users to complete their own requests	On going

- **Goal:** Improve access to information for users.:

Objectives	Status
Provide Training to users on the system.	Annual
Enhance existing Online Mapping System	Annual
Enhance existing Tax Inquiry System	As Needed
Provide more access to information in Register of Deeds	2007
Develop Online Survey Application	2006

- **Goal:** Education of public and private sector about the benefits of the County Program

Objectives	Status
Provide Training Workshops on New Applications	As Needed
Participate in State and Local programs	Annual

**1. Keys to Achieving Goals:**

- The county will ensure that the information is readily translatable for use by any state or local county/agency or public utility. Data is maintained using non-proprietary software, which ensure that data can be readily translatable.
- The county will ensure that the information is easily retrievable by any state or local county/agency or public utility. Data will be retrievable through several mediums such as public terminals, the World Wide Web, CD-ROMs and other appropriate technology.
- The county will ensure that the information is geographically referenced for use by any state or local, county or public utility. Data county data will be geographically referenced using the standard coordinate systems that will ensure that the data can be easily shared.

**2. Database Design:**

- The County's geographic system is designed to support the existing systems implemented by the County.
- The database design for land records information conforms to county standards, which allows for integration. All spatial data are topologically structured and designed to integrate back to our database design. Most GIS datasets are documented with compliant metadata.
- County Network: The County has a AS400 which hosts the County Tax, Land, Financial, Register and Imaging systems. The County also has a Windows network which is primary based on Microsoft products. The Land Records program has both Autodesk and ESRI products; however the majority of the data is based on the ERSI schema.

**B. Progress Report on Ongoing Activities**

See Goals and Objectives above. The progress has been updated in the status column.

**C. New Initiatives**

**1. Proposed Projects:**

See Goals and Objectives above.

**2. Assistance Requested**

- a) *Technical Assistance:* While the LIO List Server has provided good insight, more information could be published or provided on models of projects from across the State.
- b) *Finances:* The County plans to use retained fees and WLIP grant dollars to fund the activities. The County will continue to pursue other funding (ex: grants, tax levy).
- c) *Procurement:* The Land Information Office has and will continue to follow county policy for procurement.

**3. Problems Encountered:** While there is interest in completing these initiatives as soon as possible, limited funding and staffing affect of the overall timing and implementation. To address this issue, the County will need to define each project along with its budget to obtain support.

**D. Custodial Responsibilities** (§ = State Statute, \* = County Ordinance)

**1. [Land Information Office](#)**

- a) Current Land Records Responsibility and duties
  - (1) *Coordinates land information projects within the county (§59.88)*
  - (2) *Prepares the Countywide Plan for land records modernization.*

- (3) Oversees the LIS/GIS portion of the countywide computer network.
  - (4) Creates scripts, programs, and user interfaces for mapping and LIS/GIS needs.
  - (5) Maintains a countywide layering scheme for all mapped entities.
  - (6) Maps and maintains all digital parcel maps.
  - (7) Works on special projects for individual departments, municipalities, agencies, and the public and private sector.
  - (8) Oversees the integrity of maps and corresponding land records data submitted or created for use in the countywide GIS/LIS program.
  - (9) Budgets and oversees grants for use in land records modernization efforts.
  - (10) Maintains County IMS site.
  - (11) Responsible for the completion of the county Plat book.
  - (12) Creation of yearly County Road Map.
  - (13) Maintenance of digital land use and zoning maps.
  - (14) Maintenance of digital shoreland, floodplain, and recreation maps.
  - (15) Maintenance of digital address and rural numbering maps.
  - (16) Maintain E911 Datasets.
- b) Future Land Records responsibilities and duties (expected or willing to assume).
- (1) Educating users in the creation of maps and the use of GIS.
  - (2) Program user interfaces for data entry and GIS queries.
2. [Register of Deeds](#)
- a) Current Land Records Responsibility and duties
- (1) Records and stores deeds, mortgages, plats, and associated land records (§59.21) and maintains its corresponding database.
  - (2) Maintains a computerized tract index and grantor/grantee index. (§59.21)
- b) Future Land Records responsibilities and duties (expected or willing to assume).
- (1) Responsibility for the use and management of a document imaging system.
  - (2) E-Transmission of transfer return forms
3. [Real Property Lister](#)
- a) Current Land Records Responsibility and duties
- (1) Maintains a database of description and ownership information on all parcels. (§70.09)
  - (2) Maintain database information on school and other special district codes
  - (3) Maintain hard copy parcel maps, including property divisions, splits, and merges.
  - (4) Maintains computer services for assessment roll, notice of assessments, summary reports, tax roll, and tax billing.
  - (5) Assigns new parcel identification numbers (PIN) to parcels.
- b) Future Land Records responsibilities and duties (expected or willing to assume)
- (1) Maintain or oversee maintenance of digital parcel maps.
  - (2) E-Transmission of transfer return forms
4. [County Clerk](#)
- a) Current Land Records Responsibility and duties
- (1) Maintains hard copy electoral and jurisdictional maps. (§5-10)\*
  - (2) Maintains highway and road relocation orders. (§32.05 and 84.09)
  - (3) Maintain a state trunk highway system map (§84.02)
- b) Future Land Records responsibilities and duties (expected or willing to assume)
- (1) Maintenance and review of digital electoral and jurisdictional maps upon creation.
5. [Emergency Government](#)
- a) Current Land Records Responsibility and duties.
- (1) Maintains records on hazardous chemical storage. (§166.20)
  - (2) Maintains records on prior chemical spills. (§166.215)
  - (3) Maintains records on emergency evacuation sites. (§166.09)
  - (4) Maintains records on damages to public and private properties. (§166.22)

- (5) *Maintains records on pipelines.*
  - (6) *Maintains current records of emergency response districts.*
  - (7) *Maintains CityWatch program.*
  - b) Future Land Records responsibilities and duties (expected or willing to assume)
    - (1) *Create and maintain digital hazardous chemical storage and spills maps.*
    - (2) *Create and maintain digital emergency evacuation site maps.*
    - (3) *Create and maintain digital disaster area maps.*
    - (4) *Create and maintain digital emergency response district maps.*
6. [County Surveyor](#)
- a) Current Land Records Responsibility and duties
    - (1) *Maintains information on PLSS corners. (§59.49)*
    - (2) *Maintains information on the High Accuracy Network (HARN) densification in the county.*
    - (3) *Maintains and reviews private and certified survey maps (CSM) as provided to its office.*
    - (4) *Oversee all monument maintenance activities.*
  - b) Future Land Records responsibilities and duties (expected or willing to assume)
    - (1) *Maintain a countywide database and GIS of PLSS section corners.*
7. [Planning & Zoning Department](#)
- a) Current Land Records Responsibility and duties
    - (1) *Maintain zoning and land use maps as approved by unincorporated municipalities. (§59.69)\**
    - (2) *Maintain shoreland and floodplain zoning. (§59.69)*
    - (3) *Maintain the countywide uniform address system and rural address maps. (§59.54)\**
    - (4) *Review land division in the form of plat and CSM reviews. (§59.69)\**
    - (5) *Enforces county zoning and building ordinances. (§59.69)\**
    - (6) *Administration of farmland preservation plans and zoning. \**
    - (7) *Administers outdoor recreation plan. \**
    - (8) *Maintains well abandonment program. \**
8. [Land and Water Conservation Department](#)
- a) Current Land Records Responsibility and duties (Chapter 92 §)
    - (1) *Prepare land and water resource management plan (§92.10)*
    - (2) *Maintains natural resource data including field by field soil erosion data for "T" by 2000 program (§92.025)*
    - (3) *Maintains digital and hard copy watershed maps.*
    - (4) *Maintains conservation plans for land owners.*
    - (5) *Maintains and monitors Farmland Preservation Program conservation plans (§92.104)*
    - (6) *Maintain CREP mapping database.*
    - (7) *Maintain Well Monitoring database.*
  - b) Future Land Records responsibilities and duties (expected or willing to assume)
    - (1) *Develop and maintain conservation practice mapping database.*
    - (2) *Develop and maintain well abandonment mapping database.*
    - (3) *Develop and maintain database of geologic features that may contribute to groundwater contamination.*
9. [Highway Department](#)
- a) Current Land Records Responsibility and duties
    - (1) *Maintains a filing system for right-of-way design and as-built plans.*
    - (2) *Maintain control access regulations filing system. (§83.027)\**
    - (3) *Maintains a sign inventory.*
    - (4) *Maintains a seven year road project, maintenance, and improvement database.*
    - (5) *Maintains utility and driveway inspection records.*

- b) Future Land Records responsibilities and duties (expected or willing to assume)
  - (1) *Request all road and highway design and as-built plans in digital form, for digital filing.*
  - (2) *Create and maintain a GIS and database of controlled access ROW areas.*
  - (3) *Utilize a countywide road database for vehicle routing and road maintenance records.*
  - (4) *Create and maintain an automated utility and driveway inspection system.*

**9. Clerk of Courts**

- a) Current Land Records Responsibility and duties
  - (1) *Maintains a database of civil judgments and small claims on individuals and property (§799.09).*
  - (2) *Maintains a database of state tax and construction liens on persons or properties.(§75.521, 806.16 )*
  - (3) *Maintains a database of bankruptcy actions and sheriff sales.(§806.19, 842.28, 812.16)*

**10. Probate**

- a) Current Land Records Responsibility and duties
  - (1) *Maintains a database of probate records. (§851)*
  - (2) *Maintains a database of guardianship records. (§880)*

**11. Treasurer**

- a) Current Land Records Responsibility and duties
  - (1) *Collection of general property taxes (§74.07)*
  - (2) *Preparation of taking and sale of tax delinquent properties.*
  - (3) *Work with Real Property Listor on tax billing*
  
- b) Future Land Records responsibilities and duties (expected or willing to assume)
  - (1) *Create and maintain digital database of In-Rem properties.*

**12. Sheriff**

- a) Current Land Records Responsibility and duties
  - (1) *Maintain Master Street Address Guide (MSAG)*
  - (2) *Quality check / verify E911 addressing database.*
  
- b) Future Land Records responsibilities and duties (expected or willing to assume)
  - (1) *Wireless E911*
  - (2) *Incident Mapping*

**13. Human Services**

- a) Current Land Records Responsibility and duties
  - (1) *Maintain databases to be geo-coded*
  
- b) Future Land Records responsibilities and duties (expected or willing to assume)
  - (1) *Mapping of Services*

**14. Health**

- a) Current Land Records Responsibility and duties
  - (1) *Maintain databases to be geo-coded*
  
- b) Future Land Records responsibilities and duties (expected or willing to assume)
  - (1) *Incident Mapping*
  - (2) *Mapping of Services*

## E. Foundational Elements and State-Wide Standards

### 1. Communication, Education, Training and Facilitated Technical Assistance

- a) **Data Documentation:** The County has developed METADATA for its existing datasets.
- b) **Resources Available:** The County does not have a formal training center; however, we do work with Fox Valley Technical College to help offer training programs.
- c) **Customer Needs:** Needs from internal and external customers are based on user demand and technology changes.
- d) **Training:** Training will be provided both internally through the LIO and externally as needed and as funds exist.
- e) **Technology Use:** The technology is used to help train the users and public on the program.
- f) **Clearing Housing:** The County does participate in the Technical Assistance List Server and we are interested in working with some type of clearing house once it is clearly defined and supported by the community.
- g) **Education Funds:** The training and education dollars obtained through the Program have been used to send staff to WLIA events.

### 2. Geographic Reference Framework

- a) **Geodetic Control Network:** The County has completed densification of the High Accuracy Reference Network (HARN) to the tertiary level using GPS and the Wisconsin Department of Transportation standards. The county will be responsible for maintenance of the HARN Densification.
- b) **Public Land Survey System:** The County has completed 100% of the remonumentation and geodetic control of the Public Land Survey System (PLSS) for section and quarter section corners. This work meets the requirements established in state statutes and meets at least second order class II standards. The County also has a maintenance program where 5% of the corners are inspected each year, thus all corners will be checked at least once every twenty years.
- c) **Photogrammetric Base Maps:** The County has a series of images that are available for use in a digital format which are in county coordinates. The dates that are available are: 1938, 1992, and 2001. The County also has 9x9 contact prints from 1995.
- d) **Digital Elevation Models:** None
- e) **Digital Orthophoto (DOP):** The County has a series of images that are available for use in a digital format which are in county coordinates. The dates that are available are: 1938, 1992, and 2001. The County has established a five-year cycle for acquisition of new ortho-photography (2005, 2010, etc).
- f) **Digital Terrain Model:** In 2001, the County obtained a DTM to support 4-foot contours.
- g) **Digital Raster Graphic:** None

- h) **Triangulated Irregular Networks:** The County has not purchased TIN products however we have generated TIN's using internal software.
- i) **Contours:** The County has 4 foot contours establish for the entire county. The County will be acquiring 2 foot contours in 2005.
- j) **Satellite Imagery:** None
- k) **Ability to Support Wireless 911:** The County has the geographic infrastructure established to support Wireless 911; however the technology to support the Wireless 911 will be implemented in 2006 or 2007.

### 3. Parcel Mapping

- a) **Type:** The County has completed the digital parcel mapping for the entire county excluding the City of Menasha and Appleton. Menasha parcels are mapped by Winnebago County and Appleton maintains its own parcels. The parcel mapping is referenced to the Public Land Survey System (PLSS). The method of parcel mapping is entry by Coordinate Geometry (COGO) onto the PLSS from deeds, surveys, and plats.
- b) **Coordinate System Used:** Calumet County Coordinate System
- c) **Parcel ID:** The county parcel ID numbering system wholly conforms to the WLIB parcel numbering system standards, and in some cases exceeds it in scope. This standard was implemented for the creation of the 1998 tax bills.

### 4. Parcel Administration

- a) **Design:** The County has developed a parcel administration design that has property records and boundary information including the PIN referenced to the PLSS.
- b) **Activities:** With the primary PIN; we can establish links back to our Tax, Land and Register of Deeds systems. We are currently working on a new document imaging system that will allow links back to actual copies of recorded documents.

### 5. Public Access

- a) **Access:** The County is currently using several methods to provide access to customers. These methods include: Internet access to the *GIS Online Mapping System*, Internet Access to the *County Tax Inquiry System*, Public Terminals for research, CD Subscription access for recorded documents and daily counter access.
- b) **Data Sharing Policies:** The County has policies that govern data sharing, copyright and data fees.
- c) **Open Access to Data:** See 5.a. above.
- d) **Customized Data:** Customized data can be acquired from the Land Information Office based on the fee schedule.
- e) **Internet Access:** See 5.a. above.

- f) **System Security:** The County does have the appropriate security installed to protect its systems.
- g) **Privacy Policies:** The County does not have specific privacy policies except those regulated by state or federal law.
- h) **One Dollar Fee:** The County has used the one-dollar fee to provide housing related data to the Internet. This includes such applications such as the Tax Land Inquiry and the GIS online mapping system.

## 6. Zoning Mapping

- a) **Zoning Districts:** Zoning districts are mapped for all areas that have some type of zoning.
- b) **Shorelands:** Shoreland zoning districts have been mapped per the regulations; however County does not have all the navigable waterways defined.
- c) **Floodplains:** Floodplains have been digitized off of the FEMA maps. New digital maps are scheduled to be produced in 2007-8.
- d) **Environmental Corridors:** Part of zoning districts
- e) **Burial Sites:** Data provided from the State Historical Society.
- f) **Archeological Sites:** Data provided from the State Historical Society.
- g) **Historical/Cultural Sites:** Data provided from the State Historical Society.

## 7. Soils Mapping

The County has digital soil maps from the Natural Resources Conservation Service.

## 8. Wetlands Mapping

The County does not have official digital wetland maps from the DNR. The county currently has digitized wetland maps based on the official DNR paper maps.

## 9. Institutional Arrangements and Integration

The County has a number of data sharing arrangements with other governmental agencies and private firms in the form of Memorandums of Understanding or informal agreements. The County is also involved in groups and committees that share land records information as needed. The County currently part of a consortium to obtain new aerial photography and other mapping products.

## 10. Reconciled Election and Administrative Boundary System

The county has acquired the appropriate layers for: zip codes, census geographies, school districts, legislative districts, minor civil divisions, and county boundaries. These layers have come from various sources.

## 11. Reconciled Street Address and Street Network System

- a) **Transportation Network:** The County has a complete transportation network.
- b) **Right of Way:** Right of way areas were mapped during parcel conversion. We have defined some areas that need further work in the county. We are estimating that 80% of the right of ways have been mapped in the County.
- c) **Centerlines:** The County has mapped all centerlines for the county and meet local standards.
- d) **Address Ranges:** Addresses ranges have been assigned to the centerline file.
- e) **Site Address Database:** We have a site address database, which is based on our parcel mapping.
- f) **Address Point / Driveway:** We have address points that are located where the driveway meets the road. This file is currently out of date and will be updated after the new imagery is collected.
- g) **Road Names:** Road names have been assigned to the centerline file.
- h) **Functional Class:** Functional classes have been assigned to the centerline file.
- i) **Landmarks:** We have a common place file created which is used for E911.
- j) **MSAG:** Centerline/Addresses match the County MSAG and local standards
- k) **Emergency Planning:** Data supports CityWatch, which is a program used to notify residents in case of an emergency.
- l) **Wireless 911:** The geographic framework exists to support Wireless 911; however until the technology is implemented is not fully known if all the data is currently present.

## **12. Land Use Mapping**

- a) **Land Use:** The County worked with East Central Regional Planning to have the land use mapped in 2004.
- b) **Tax Land Use:** The County utilizes the Department of Revenue (DOR) Land Use Classification System within its assessment roll database. The land use assessment evaluations and corresponding acreage are determined by the municipal assessors, and maintained by the Real Property Lister.
- c) **Future Land Use:** Future land use is not completed; however the County is working on its Smart Growth Plan, which should be completed in 2007.

## **13. Natural Resources**

- a) **Land Cover:** Not Complete.
- b) **Watersheds:** Completed from DNR.
- c) **Geology:** Not complete.

- d) **Hydrogeology:** Completed by WNHGS.
- e) **Forests:** Not complete.
- f) **Hydrography:** Complete from planimetric mapping and DNR data.
- g) **Non-Metallic Mining:** Completed by East Central Regional Planning Commission.
- h) **Endangered Resources:** Not complete; however we have some data from the DNR.
- i) **Impact on Environment:** The County does have a data base of well test showing water testing results.

#### 14. Data Base Design

- a) **Design Evaluation:** Calumet County currently maintains several land information related databases on an AS400 mainframe. The primary systems on the AS400 are: Land (HTE), Tax (HTE), Financial(HTE), Imaging (IMS21) and the Register of Deeds System (in-house). The County GIS system database is design to integrate with these systems.
- b) **Project Approach:** The County does not have any plans to redesign its existing database structure on the 400 or Windows network. We are considering changing our existing GIS data sets to match the latest technology (geodatabase).
- c) **Timeline:** NA
- d) **Metadata:** Metadata exists for the County GIS datasets; however more documentation is needed to allow further integration with the AS400 system databases.
- e) **Security/Privacy:** Security is maintained by the Information Services Department. The County does not have an specific privacy polices except those required by state and federal law.
- f) **Implementation:** The County does not have any plans to redesign its existing database structure. The primary focus is on integrating these existing datasets together.
- g) **Quality:** Each system is designed to maintain security and accuracy.
- h) **Needs Assessment:** The County has an IS Advisory Committee which looks at existing and future needs.
- i) **Format:** New datasets are designed to fit into the existing data architecture.
- j) **Data Model:** Not completed for the County, but with continued growth a comprehensive date model is planned for the future.
- k) **Coding Schema:** New datasets are designed to fit into the existing data architecture.
- l) **Dictionary:** We do not have a data dictionary.
- m) **Transaction:** We do track transactions with our financial system.

- n) **Flow:** As the County implements new datasets, we establish flows to ensure that those datasets can be maintained.
- o) **Conversion:** All of our existing data is in an 'open format' which allows for easy conversion.
- p) **Integration:** By following data standards and maintaining our data in an 'open format', we are allowing for existing and future development of system integration.

## 15. Infrastructure and Facility Management

The County, through its Smart Growth Planning effort, has collected the majority of the information identified in this section. In the future, the County would like to collect more detailed information on culverts to assist with floodplain mapping and Stormwater management.

## F. Integration and Cooperation

### 1. What integrative/cooperative relationships would your county like to develop?

The county would like to develop more data and cost sharing agreement between itself and other public or private entities. The county would pursue integrative and cooperative arrangements with any agency or department that would promote efficiency, utility, compatibility, and/or savings for the parties involved.

### 2. What potential partners and mutual projects does your county plan to pursue?

The county would like to expand the scope of such local and neighboring agreements by entering into agreements with larger regional entities such as regional utilities, the Department of Natural Resources (DNR), and the Department of Transportation (DOT).

### 3. What data would be shared and used in both of the above?

The county will continue to freely share data with its municipalities and neighboring counties regarding parcel, right of way, and municipal boundary issues; but would also like to pursue other large-scale efforts. In addition, the county would like to work closer with local utilities, phone companies and emergency services to create a digital addressing system.

## G. Administrative Standards Not Associated With Foundational Elements

1. The County agrees to observe and follow the statutes relating to the Wisconsin Land Information Program and other relevant statutes.
2. The County agrees to permit the Wisconsin Land Information Board access to books, records and projects for inspection and audit including unannounced audits by the Board until it sunsets.
3. The County agrees to complete the Annual WLIP Survey should the program continue.
4. The County agrees to update the plan every 5 years should the program continue.
5. The Wisconsin Land Information Board agrees to facilitate technical assistance to the County including an on-line Technical Assistance Service.

6. The Wisconsin Land Information Board agrees to facilitate the sharing of landing information through an electronic Clearinghouse.
7. Development and implementation of an acceptable Plan confers certain benefits on local government within a County, including continued eligibility for Program funding. A self-improving peer review process will be used to assess Plan acceptability by the land information community.
8. The Wisconsin Land Information Board agrees to review funding requests and to provide guidance to local government with respect to the development of such request.
9. The Wisconsin Land Information Board agrees to make available electronically an Annual Report regarding the status of the Wisconsin Land Information Program and the activities of the Board.