



CHRISTOPHER B. BURKE ENGINEERING, LTD.

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June 12, 2023

Illinois State Historic Preservation Office
Cultural Resource Protection
One Natural Resources Way
Springfield, IL 62702

Subject: Request for Solar PV Array Review under the Illinois State Agency Historic Resource Preservation Act
0 Dietrich Road Solar PV Array Installation Project, Kane County, IL.
(CBBEL Project No. 230040.00028)

We request review of the proposed solar site under the Illinois State Historic Resource Preservation Act. The following provides the required support documentation to assist with the review.

1. The site is in Kane County, located north of Dietrich Road, east of Brier Hill Road. The nearest town is Huntley, IL located approximately 4.0 miles to the NE of the nearest panel. The next closest town is approximately 6.0 miles to the SW of the nearest panel.
2. Project Description – The project consists of the construction and operation of a solar PV array.
3. The following State Agencies will likely be involved in review and authorization of this project. IEPA-NPDES, Illinois Commerce Commission, IDNR -Threatened and Endangered Species, Federal Aviation Administration, and local approval.
4. My contact information is:
Abby Brown,
Christopher B. Burke Engineering, Ltd.
9575 W. Higgins Road, Suite 600
Rosemont, IL 60018
224-476-0161
abrown@cbbel.com

Client Contact information:
Tom Ryan
New Leaf Energy
55 Technology Drive, Suite #102
Lowell, MA 01851
630-828-6742
tryan@newleafenergy.com
5. There are no prior SHPO log numbers that we are aware of.
6. The entire property is approximately 59 acres.

7. All structures will be constructed in late 2023/early 2024.
8. Based on aerial photo review, outside of the plowed fields, there is non-agricultural ground disturbance onsite for the creation of drainage ditches and filter strips within the farm fields.
9. There are twenty previously recorded archaeological sites within 1.0 mile of the proposed APE. See final attachment of submittal.

Maps

The following maps are attached to assist in your review.

- Location Map
- National Wetland Inventory
- Soil Survey
- Flood Insurance Rate Map
- USGS Topographical Map
- Aerial Imaging

Architectural/Engineering Plans and Specifications

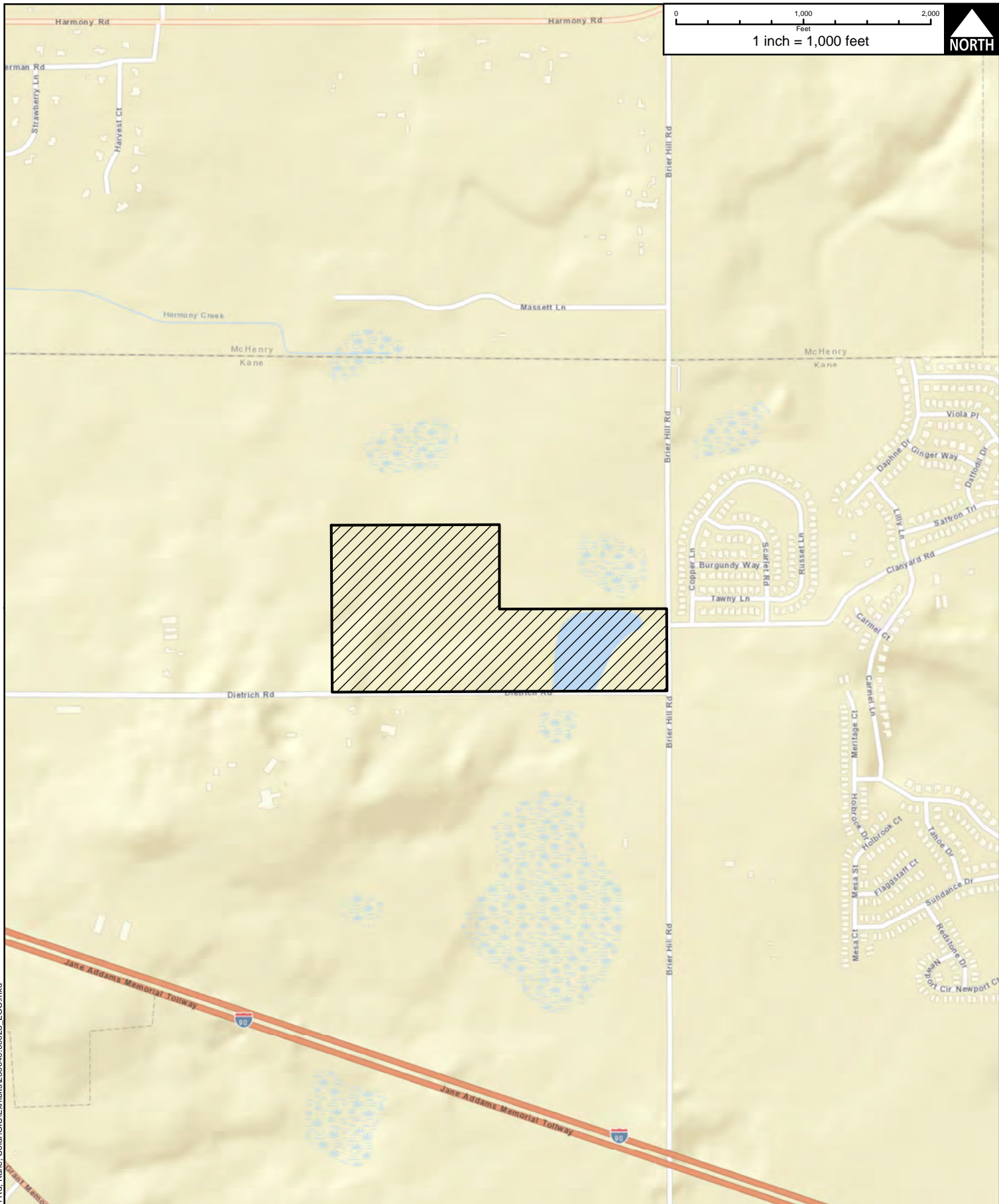
Plans or specifications pertaining to this project will be submitted upon request.

If you have any questions regarding this submittal, please don't hesitate to contact me.

Sincerely,



Abby Brown
Environmental Resources Specialist



CLIENT:
NEW LEAF ENERGY

TITLE:
**0 DIETRICH RD, HAMPSHIRE
 LOCATION MAP**

CBBEL# 23-0040.00028
 DATE: 5/20/2023

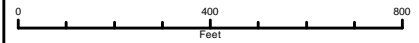
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DWN.	KEK	USER:	kkopija
CHKD.	JMA	PLOT DATE:	5/20/2023
FILE NAME:	230040.00028_LOC		

EXH 1

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NOTE: TAKEN FROM THE NATIONAL WETLAND INVENTORY(NWI), HUNTLEY QUADRANGLE(1983)



1 inch = 400 feet




NO WETLAND MAPPED ON-SITE



CLIENT:
NEW LEAF ENERGY

TITLE:
**0 DIETRICH RD, HAMPSHIRE
NATIONAL WETLAND INVENTORY**

CBBEL# 23-0040.00028
DATE: 5/20/2023

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DSGN.		SCALE:	1" = 400'
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CHKD.	JMA	PLOT DATE:	5/20/2023
FILE NAME:	230040.00028_NWI		

EXH 2

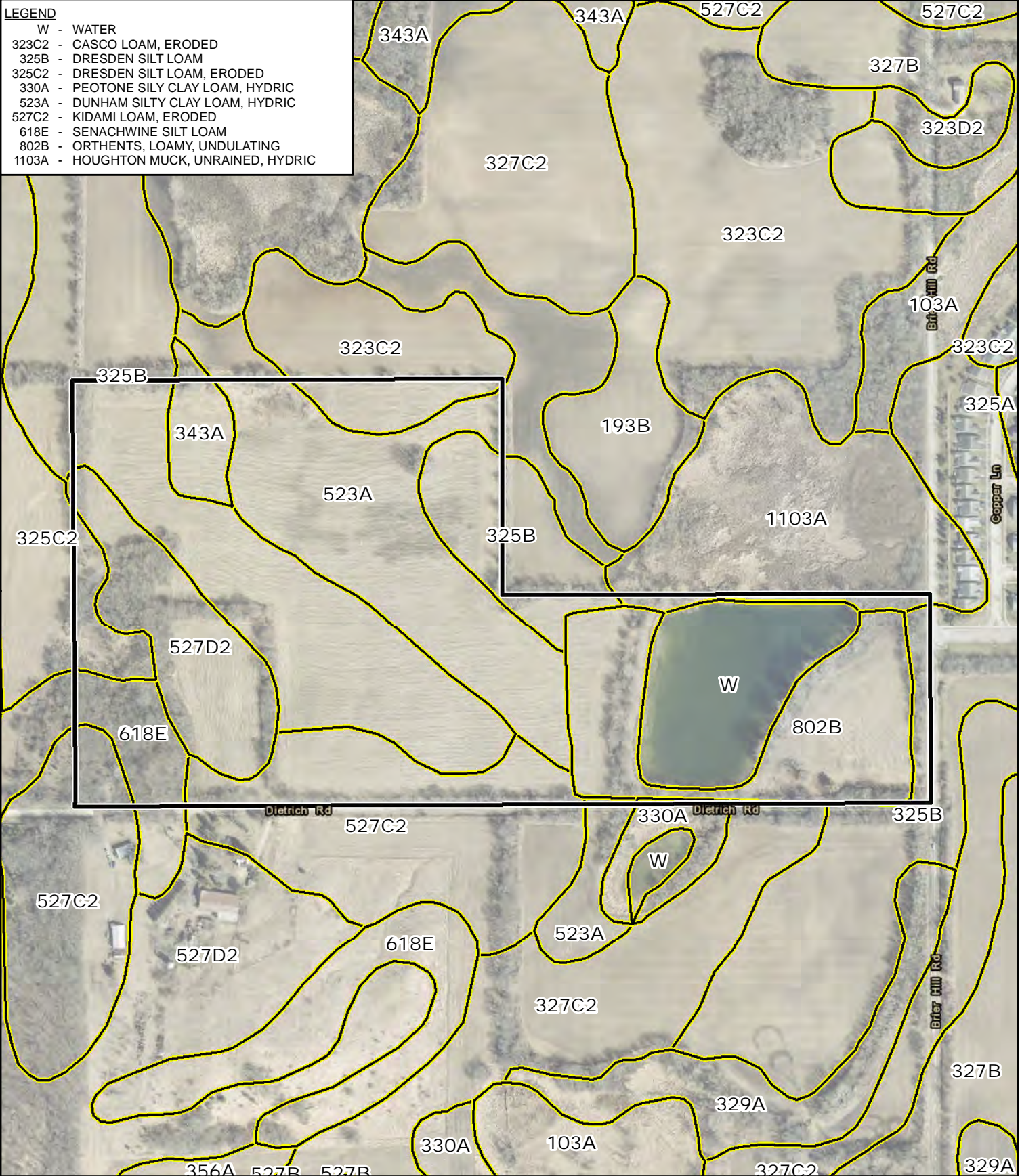
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NOTE: TAKEN FROM THE SOIL SURVEY OF KANE COUNTY, ILLINOIS(2013)



LEGEND

- W - WATER
- 323C2 - CASCO LOAM, ERODED
- 325B - DRESDEN SILT LOAM
- 325C2 - DRESDEN SILT LOAM, ERODED
- 330A - PEOTONE SILY CLAY LOAM, HYDRIC
- 523A - DUNHAM SILTY CLAY LOAM, HYDRIC
- 527C2 - KIDAMI LOAM, ERODED
- 618E - SENACHWINE SILT LOAM
- 802B - ORTHENTS, LOAMY, UNDULATING
- 1103A - HOUGHTON MUCK, UNRAINED, HYDRIC



CLIENT:
NEW LEAF ENERGY

TITLE:
**0 DIETRICH RD, HAMPSHIRE
SOIL SURVEY**

CBBEL# 23-0040.00028
DATE: 5/20/2023

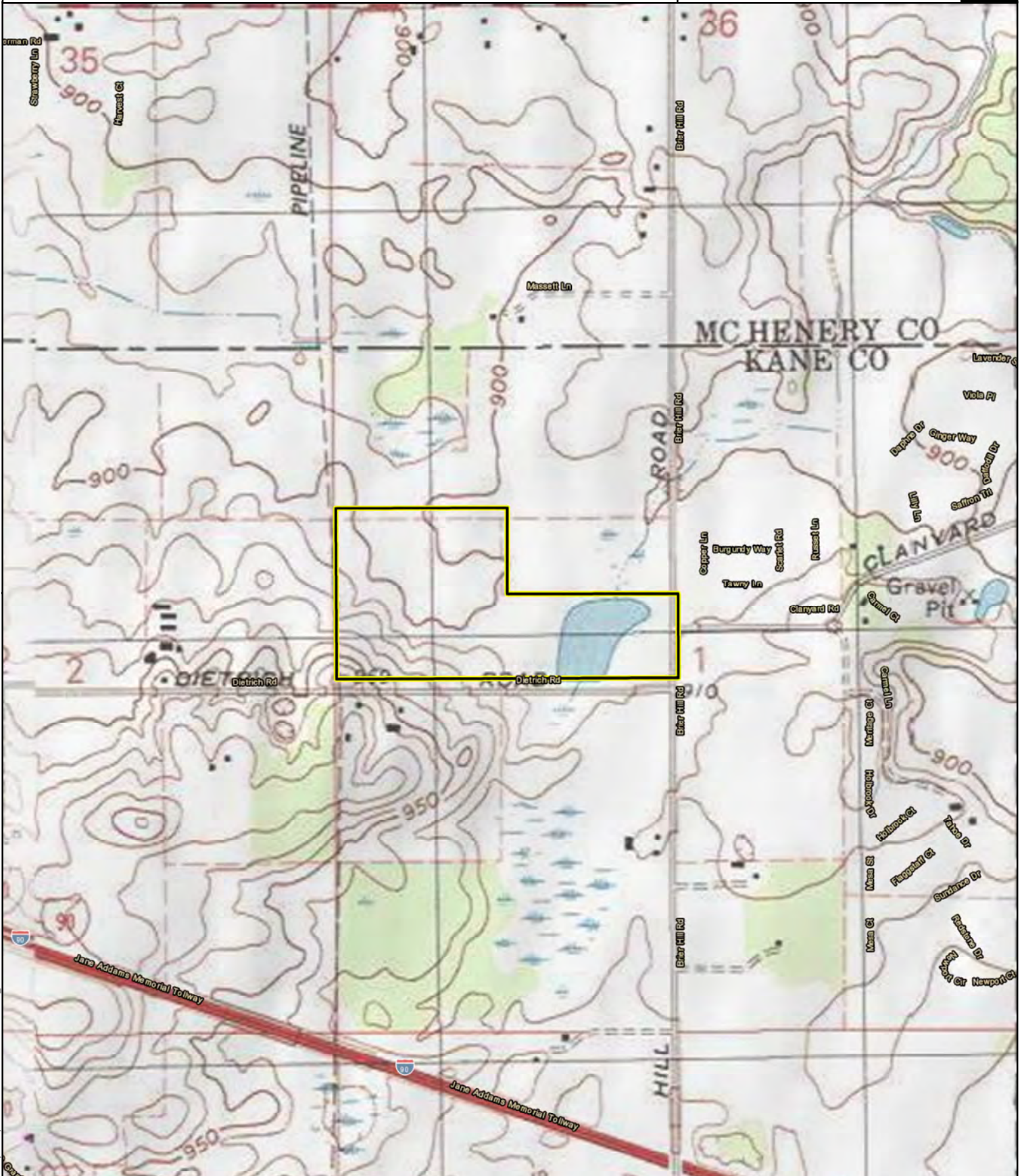
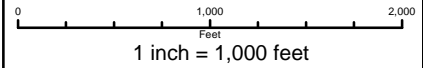
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DSGN.		SCALE:	1" = 400'
DWN.	KEK	USER:	kkopija
CHKD.	JMA	PLOT DATE:	5/20/2023
FILE NAME:	230040.00028_SOILS		

EXH 3

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NOTE: TAKEN FROM THE UNITED STATES GEOLOGICAL SURVEY(USGS), HUNTLEY QUADRANGLE(1993)



CLIENT:
NEW LEAF ENERGY

TITLE:
**0 DIETRICH RD, HAMPSHIRE
UNITED STATES GEOLOGICAL SURVEY**

CBBEL# 23-0040.00028
DATE: 5/20/2023

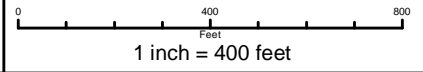
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DSGN.		SCALE:	1" = 1,000'
DWN.	KEK	USER:	kkopija
CHKD.	JMA	PLOT DATE:	5/20/2023
FILE NAME:	230040.00028_USGS		

EXH 4

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NOTE: TAKEN FROM THE FLOOD INSURANCE RATE MAP(FIRM), KANE COUNTY AND INCORPORATED AREAS, ILLINOIS, MAP NUMBER 17089C0040H, EFFECTIVE DATE: AUGUST 3, 2009



NO FLOODPLAIN MAPPED ON-SITE



CLIENT:
NEW LEAF ENERGY

TITLE:
**0 DIETRICH RD, HAMPSHIRE
FLOOD INSURANCE RATE MAP**

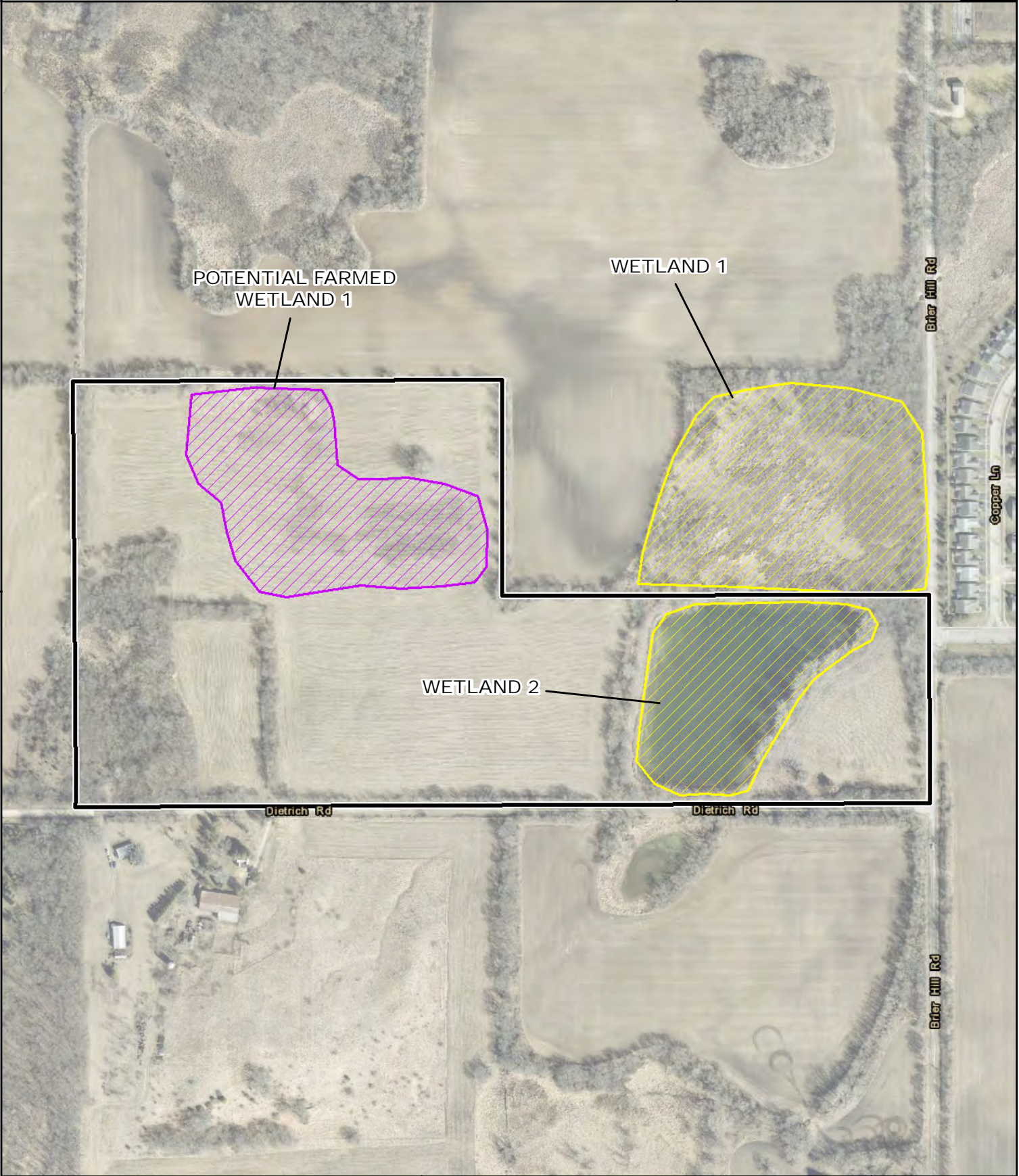
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DATE: 5/20/2023

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DSGN.		SCALE:	1" = 400'
DWN.	KEK	USER:	kkopija
CHKD.	JMA	PLOT DATE:	5/20/2023
FILE NAME:	230040.00028_FIRM		

EXH 5

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CLIENT:
NEW LEAF ENERGY

TITLE:
**0 DIETRICH RD, HAMPSHIRE
AERIAL PHOTO**

CBBEL# 23-0040.00028
DATE: 5/20/2023

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DSGN.		SCALE:	1" = 400'
DWN.	KEK	USER:	kkopija
CHKD.	JMA	PLOT DATE:	5/20/2023
FILE NAME:	230040.00028_AERIAL		

EXH 6

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All data was gathered from: The Illinois Inventory of Archaeological Sites. Site and Survey files. Online at <<http://geoserver.dnr.illinois.gov>>

230040.00028, Dietrich Road, Kane County Illinois

The proposed project APE is not within the high probability area for cultural resources. High probability areas for cultural resources are defined by the state with the geospatial data provided by the Illinois Inventory of Archaeological Sites.

There are no previously recorded archaeological sites within the proposed project APE. However, there are 20 previously recorded sites within 1.0 mile (1,600 meters) of the proposed project APE (Table 1).

Table 1. Previously recorded archaeological sites within 1.0 mile (1,600 meters) of the proposed project area.

IAS Site #	ASSR #	Within APE	Within 1.0 Mile	Site Type	Specific Time Period
11K63	N/A		✓	Habitation	Late Archaic
11K250	4748		✓	Habitation	Early/Middle Archaic
11L259	4748		✓	Habitation	Historic
11K338	4748		✓	Habitation	Prehistoric Unknown
11K339	4748		✓	Habitation	Prehistoric Unknown
11K340	4748		✓	Habitation	Prehistoric Unknown
11K349	4748		✓	Habitation	Prehistoric Unknown, Historic
11K553	9441		✓	Habitation	Historic
11K578	9245, 9683		✓	Habitation	Prehistoric Unknown
11K600	9683		✓	Habitation	Prehistoric Unknown, Historic
11K601	9245, 9683		✓	Schoolhouse	Historic
11K713	12312		✓	Habitation	Historic
11K906	14395		✓	Habitation	Historic
11MH215	9222		✓	Habitation	Historic
11MH268	9480		✓	Habitation	Prehistoric Unknown
11MH269	9480		✓	Habitation	Prehistoric Unknown
11MH270	9480		✓	Habitation	Prehistoric Unknown
11MH271	9480		✓	Habitation	Historic
11MH272	9713		✓	Habitation	Historic
11MH273	9713		✓	Habitation	Prehistoric Unknown

There are no previously recorded archaeological surveys within the proposed project APE, However, there are 16 previously recorded surveys within 1.0 mile (1,600 meters) of the proposed project APE (Table 2).

Table 2. Previously recorded archaeological surveys within 1.0 mile (1,600 meters) of the proposed project area.

ASSR#	Report Title	Institution
4748	Report of Phase I Archeological Survey for the Proposed Huntley Meadows Development	PEI
6060	Results of a Phase I Archaeological Reconnaissance Survey of the Widmayer Corridor & Northwest Tollway Sanitary Sewer	MARS
7799	Results of a Phase I Archaeological Reconnaissance Survey of 79.3 Acres of Land in Hampshire Township	MARS
9222	Results of a Phase I Archaeological Reconnaissance Survey of the Proposed Voyageur Pipeline Corridor	MARS
9240	Final Report Volume 1: Supplemental Phase I Archaeological Survey of the Lakehead Pipeline Company System Expansion Program II Corridor	G&P
9245	Final Addendum Report: Supplemental Phase I Archaeological Survey of the Lakehead Pipeline Company System Expansion Program II Corridor	G&P
9441	A Phase I Reconnaissance Survey of 78 Acres from the Proposed 147 Acre Hampshire Woods Business Park	MARS
9480	Phase I Archaeological Reconnaissance Survey of the 147.44 Acre Del Webb Proposed Undertaking in Grafton Township	MARS
9493	A Phase I Archaeological Survey of McHenry County, Huntley, Harmony Road Campus	CAV
9683	A Phase I Archaeological Reconnaissance Survey of the 159 Acre Lakehead Property	MARS
9713	A Phase I Archaeological Survey of McHenry County Harmony, Harmony Road, Ludwig & Company	CAV
9714	A Phase I Archeological Survey of Kane County, Hampshire, Ludwig & Company	CAV
12312	A Phase I Archaeological Survey of Kane County, Hampshire, Brier Hill Crossing, Project # 1178, 673 Acres	CAV
13101	Excavations Conducted at 11K340 and 11K341 During the 1996 William Rainey Harper College and Elgin Community College Archaeological Field School	MARS
14395	Phase I Archaeological Survey of the 403.81-Acre Smrt Farm Property Hampshire Township	AGS
19847	Phase I Archaeological Survey of Proposed Drainage Improvements Along the Jane Addams Memorial Tollway (I-90)	FRR

PEI: Patrick Engineering Inc., MARS: Midwest Archaeological Research, G&P: Gray & Pape Inc.,

CAV: The C.A.V.E. Group Inc., AGS: Archaeology and Geomorphology Services,

FRR: Fever River Research,

Historic Plat maps of Hampshire Township, Kane County, Illinois dating to 1860, 1872, 1892, 1904, 1921, 1935, 1942, and 1950 were reviewed for the potential of historic cultural resources within the project APE. The 1860, 1872, 1892, and 1904 plat maps indicated historic buildings within the proposed project APE (Figures 1-4). The remaining plat maps reviewed do not indicate other historic structures within the proposed project APE.

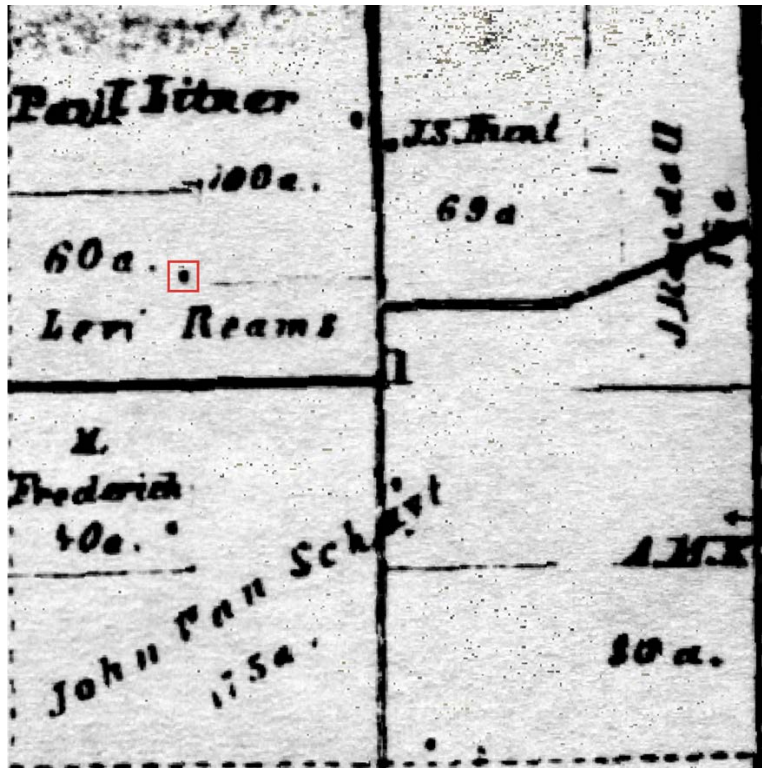


Figure 1. Portion of the 1860 Plat map of Hampshire Township, Kane County, Illinois.



Figure 2. Portion of the 1872 Plat map of Hampshire Township, Kane County, Illinois.

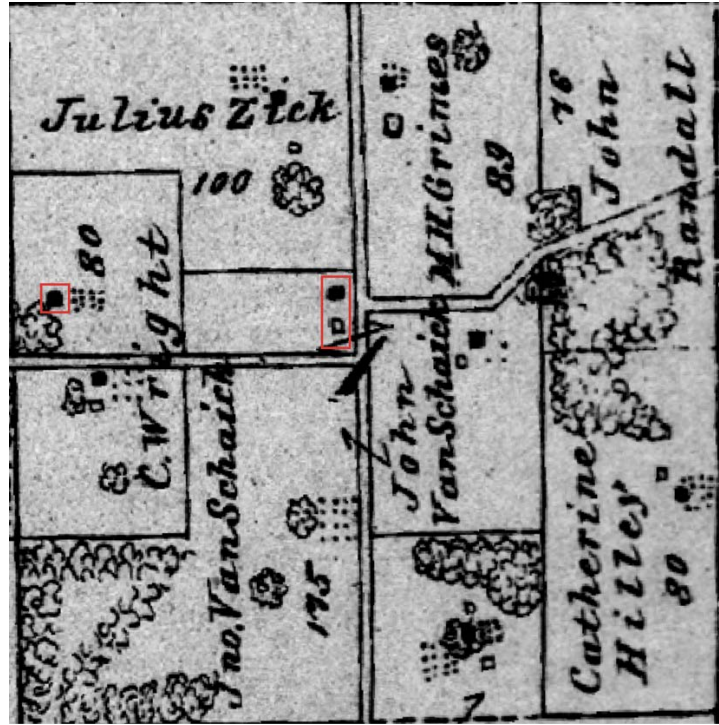


Figure 3. Portion of the 1892 Plat map of Hampshire Township, Kane County, Illinois.

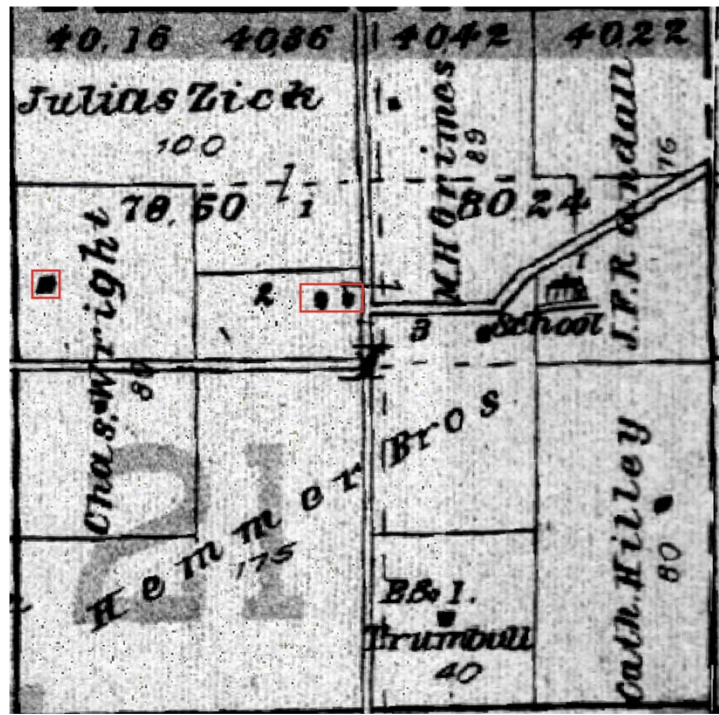


Figure 4. Portion of the 1904 Plat map of Hampshire Township, Kane County, Illinois.

References

Mann, Adin (editor)

1860 *Map of Kane County, Illinois*. Mathews, Crane & Company. Philadelphia, Pennsylvania.

Thompson & Everts

1872 *Combination Atlas Map of Kane County, Illinois*. Geneva, Illinois.

D.W. Ensign & Company

1892 *Atlas of Kane County, Illinois*. Chicago, Illinois.

Middle-West Publishing Co.

1904 *20th century Atlas of Kane County, Illinois, containing Maps of Villages, Cities and Townships of the County; of the State, United States and World*. Chicago, Illinois.